

NEW WEB  
APPLICATION

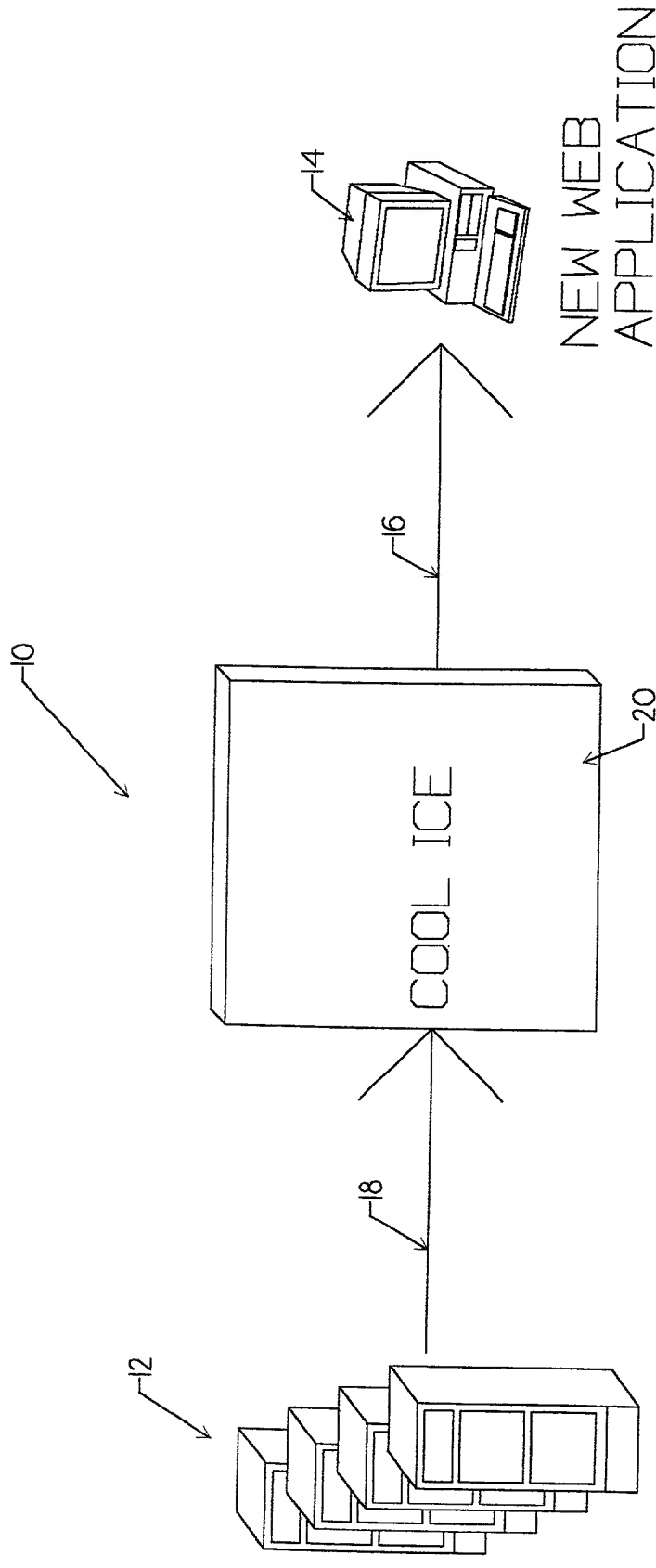


FIG. 1

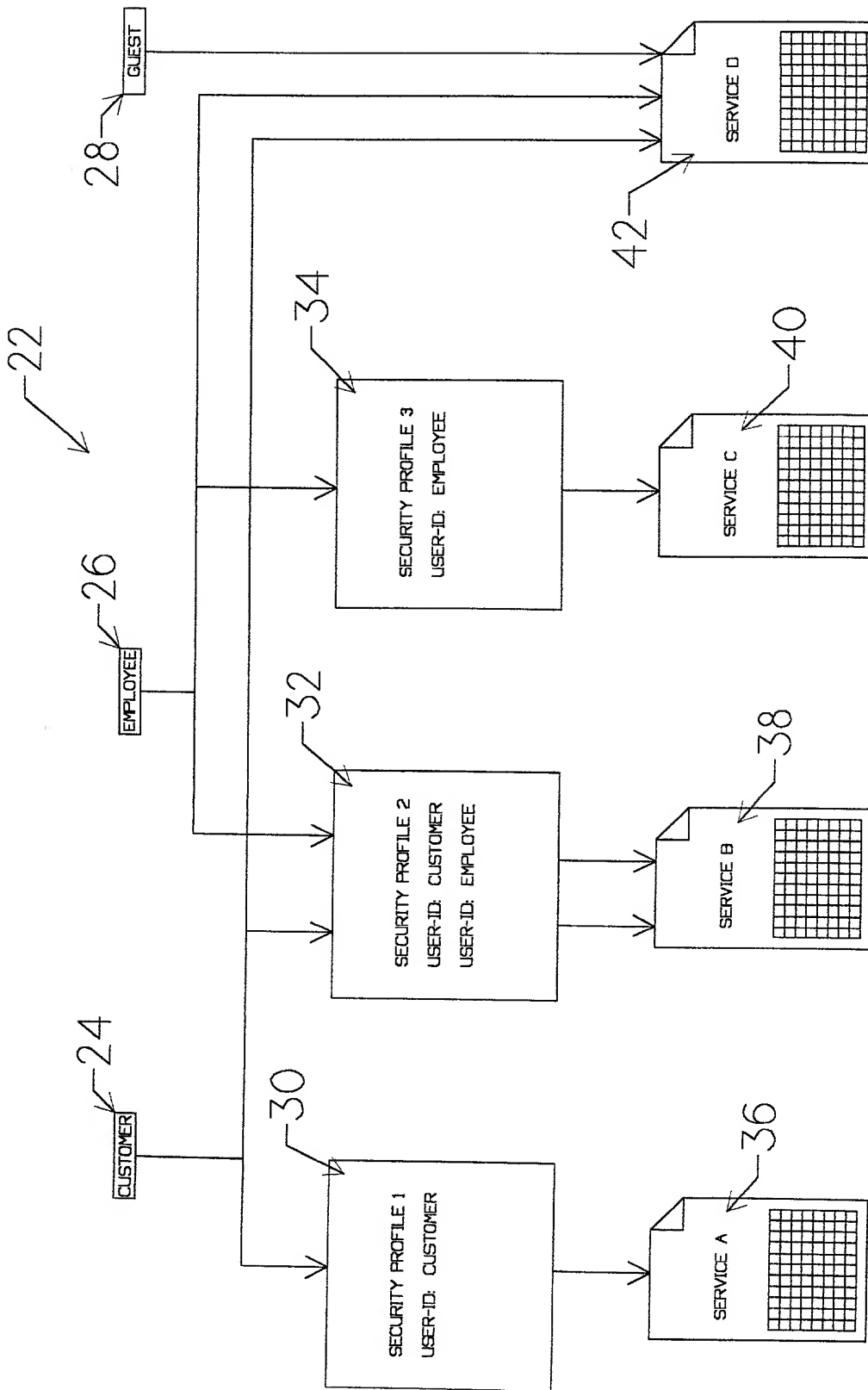


FIG. 2

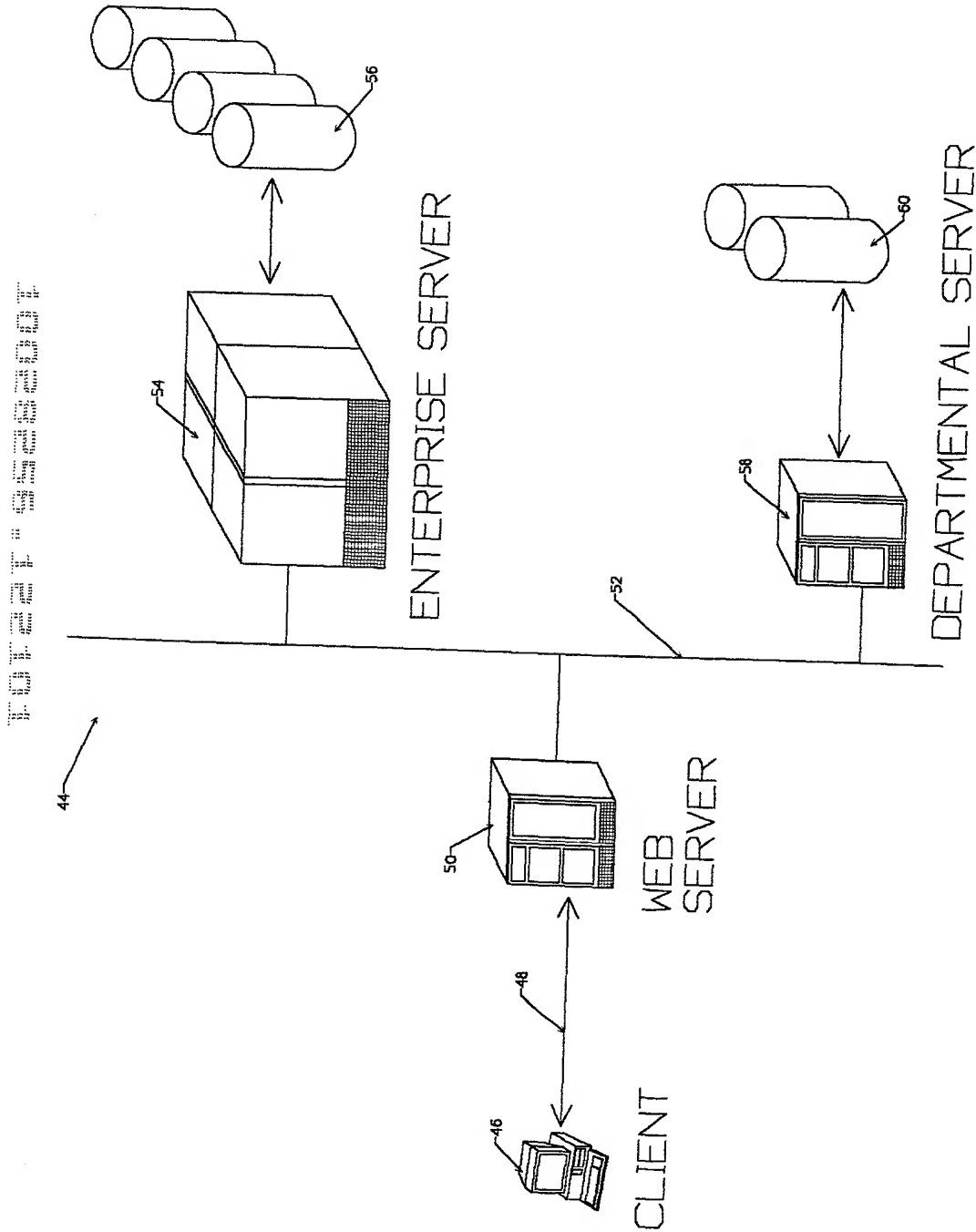


FIG. 4 is a block diagram of a Cool Ice system architecture. The system includes a Client (64) connected to a Web Server (66) which is part of the Cool Ice Domain. The Web Server contains an ASP (Open Serve) (70) and a Default ASP (Native Service) (72). The ASP (Open Serve) (70) is connected to a Cool Ice Object (74). The Cool Ice Object (74) is connected to a Cool Ice Engine (76). The Cool Ice Engine (76) is connected to a Graphing Engine (78). The Cool Ice Engine (76) is also connected to a Repository (80). The Repository (80) is connected to a Cool Ice Administrator (82). The Cool Ice Administrator (82) is connected to an Enterprise Server (86) and a Departmental Server (88). The Enterprise Server (86) and Departmental Server (88) are connected to a network (84).

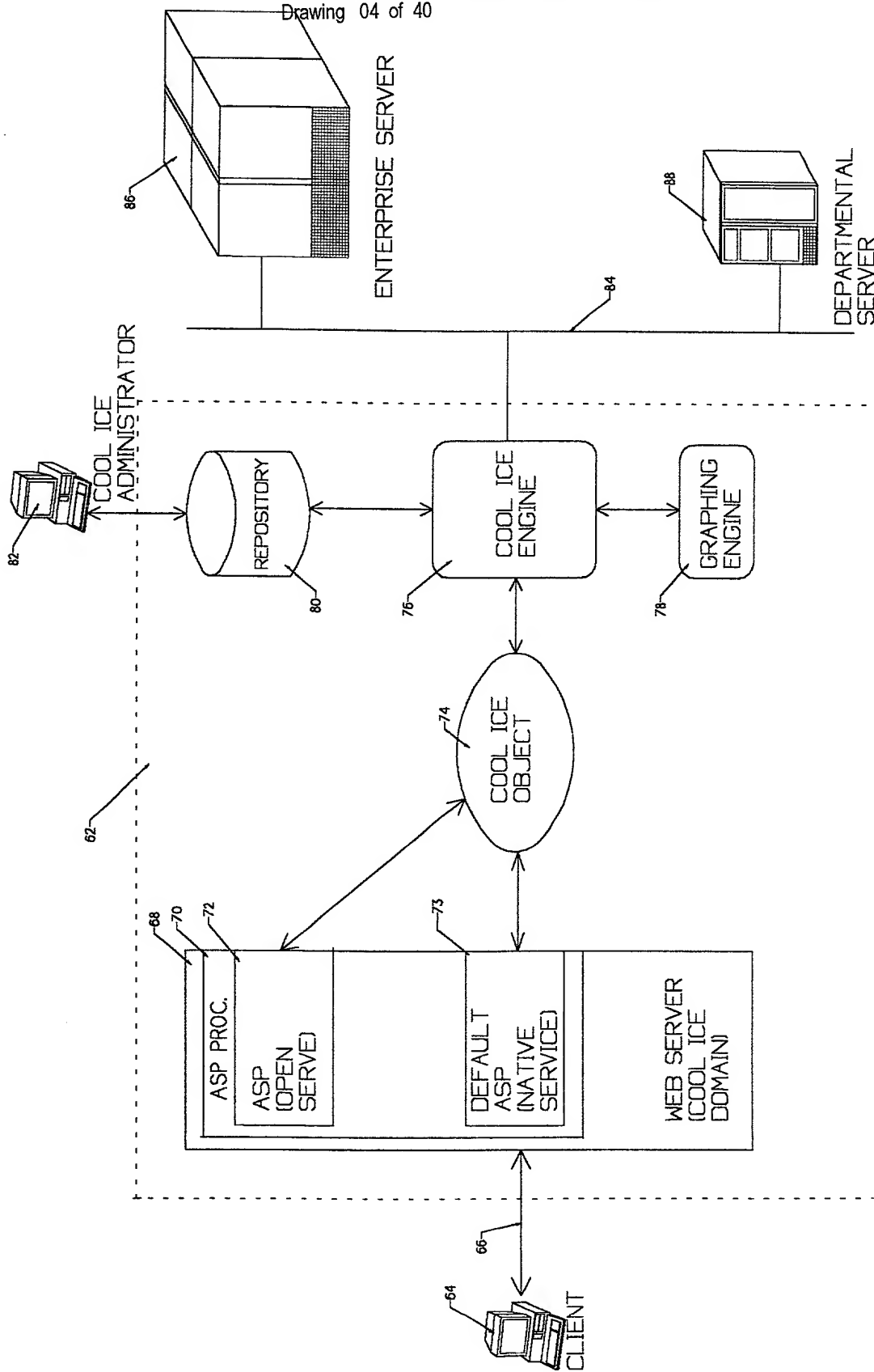


FIG. 4

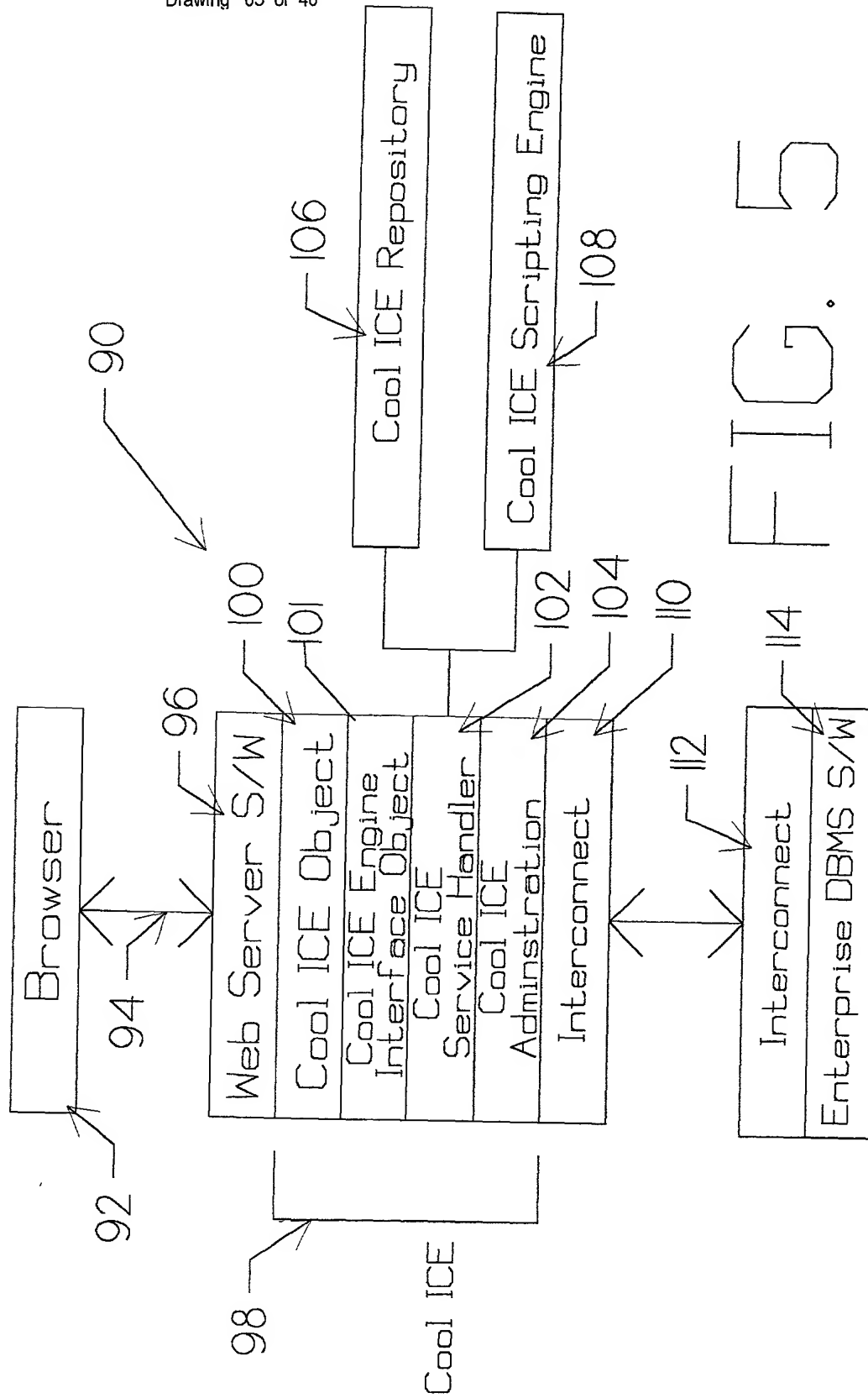


FIG. 5

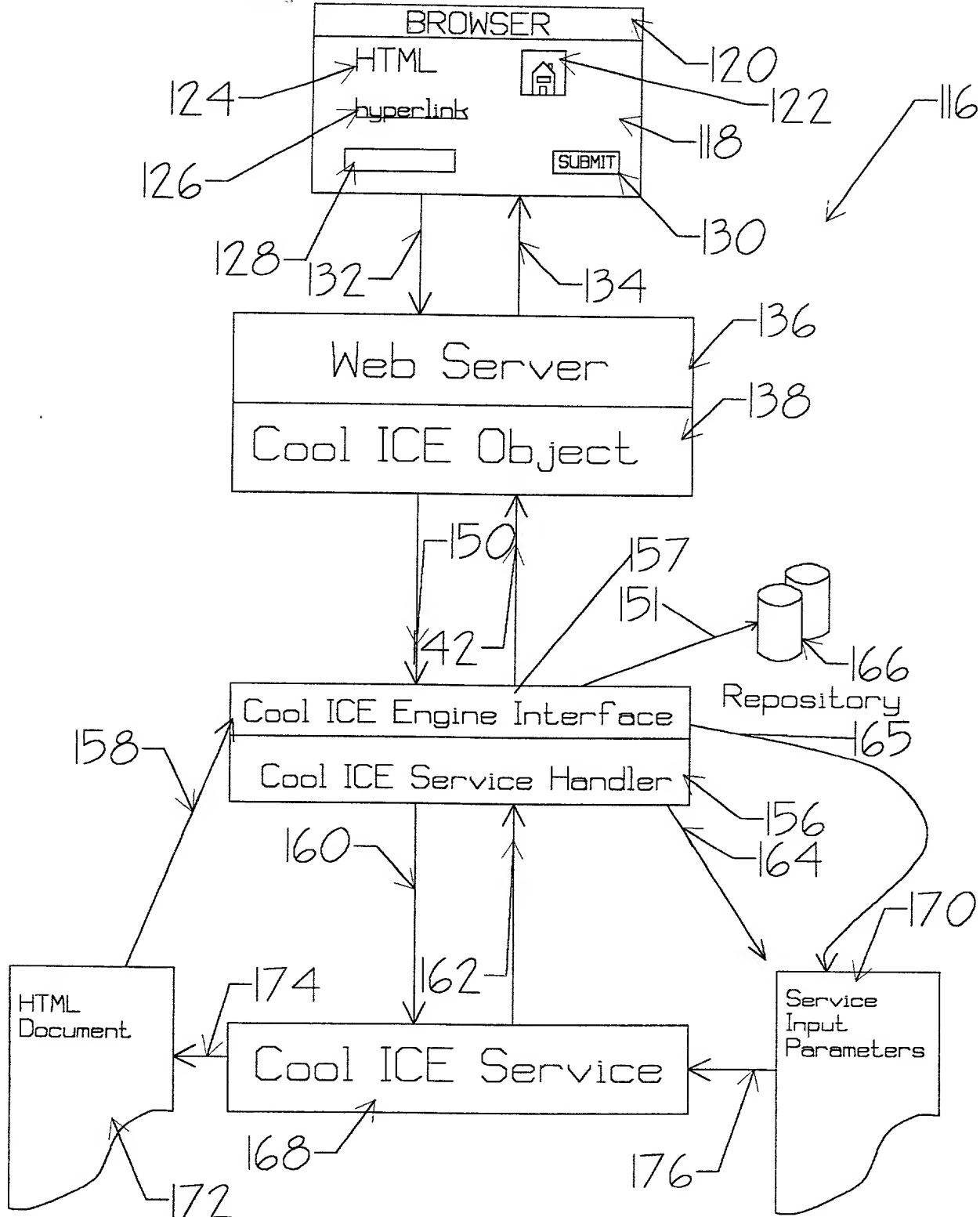


FIG. 6

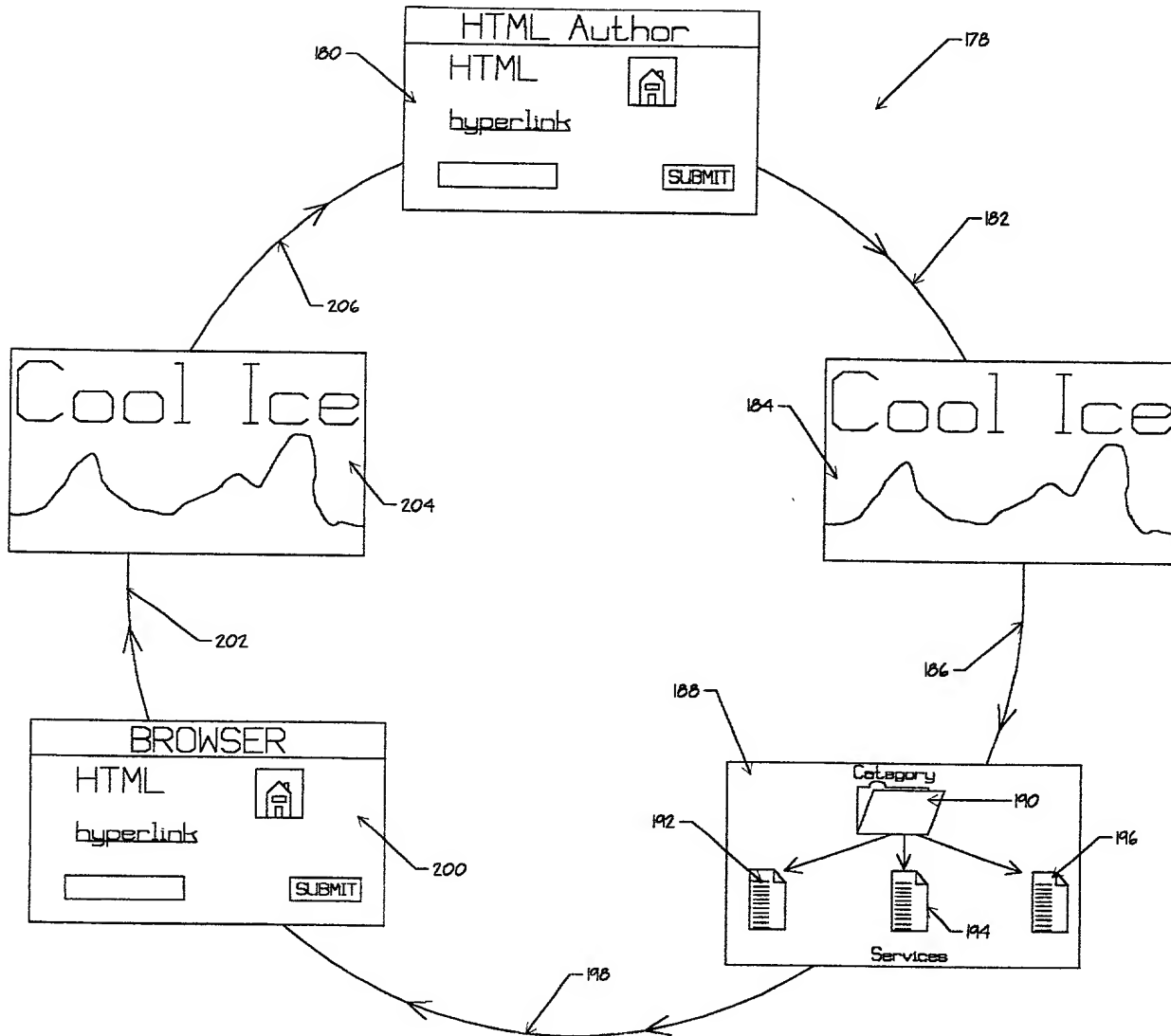


FIG. 7

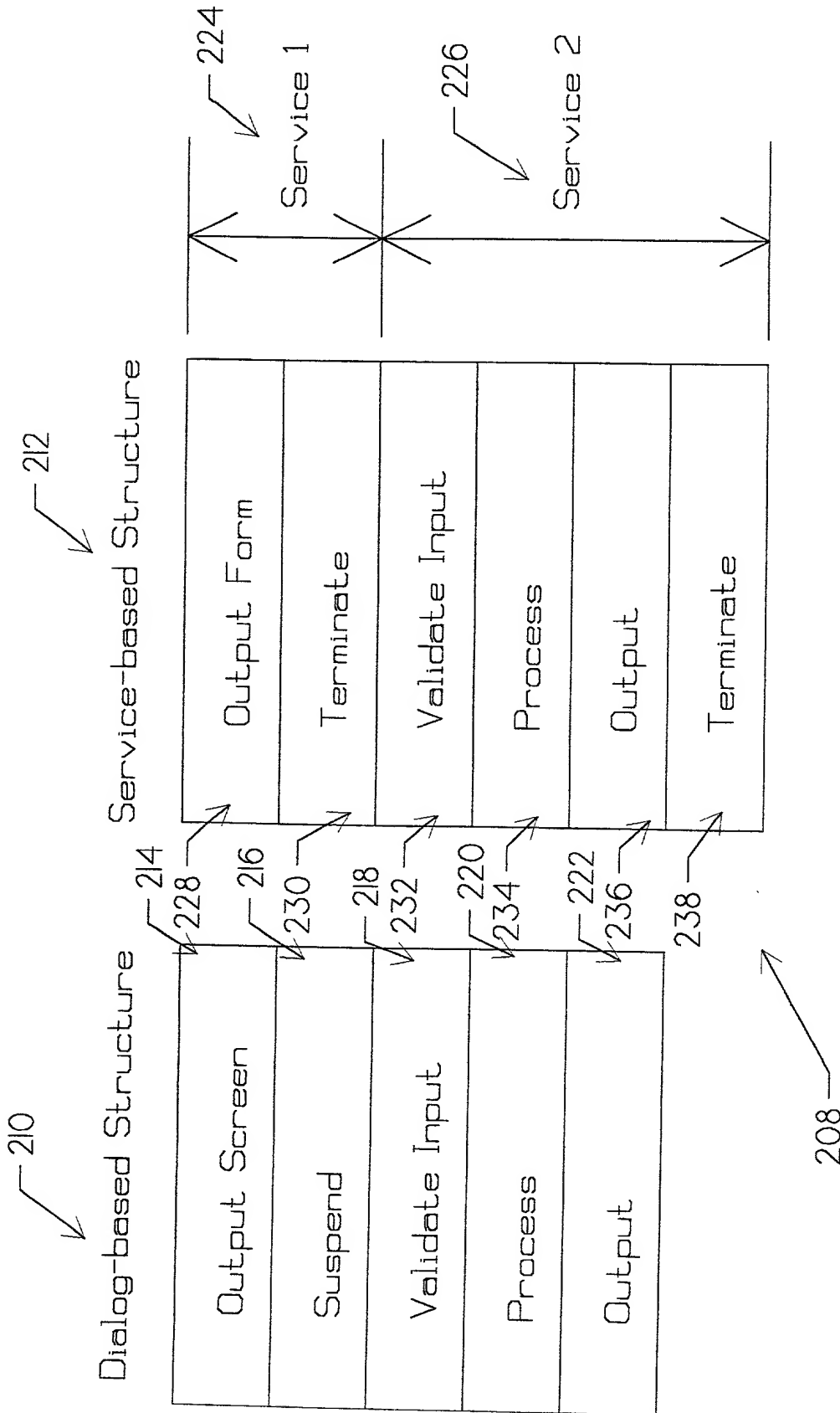


FIG. 8



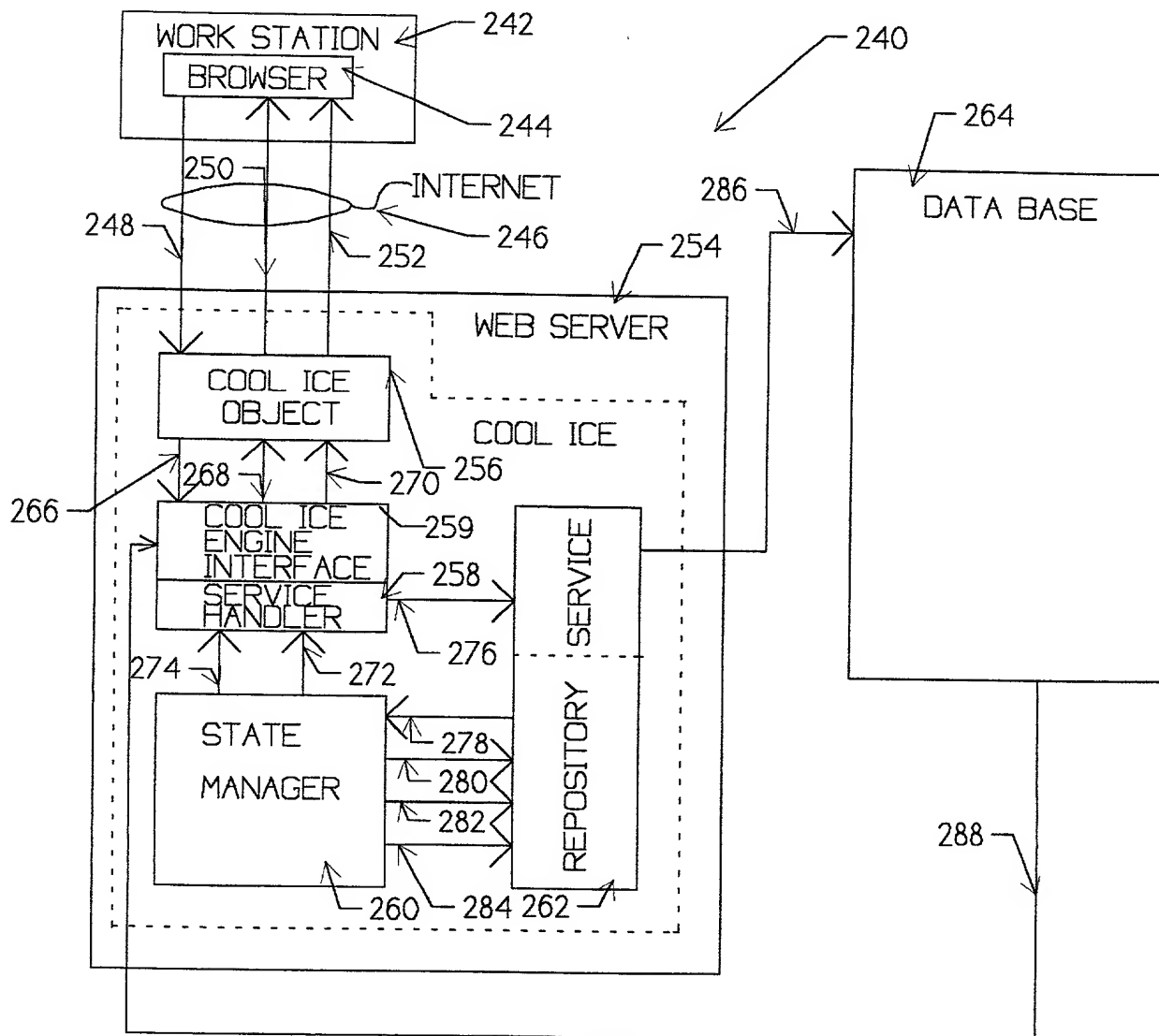


FIG. 9

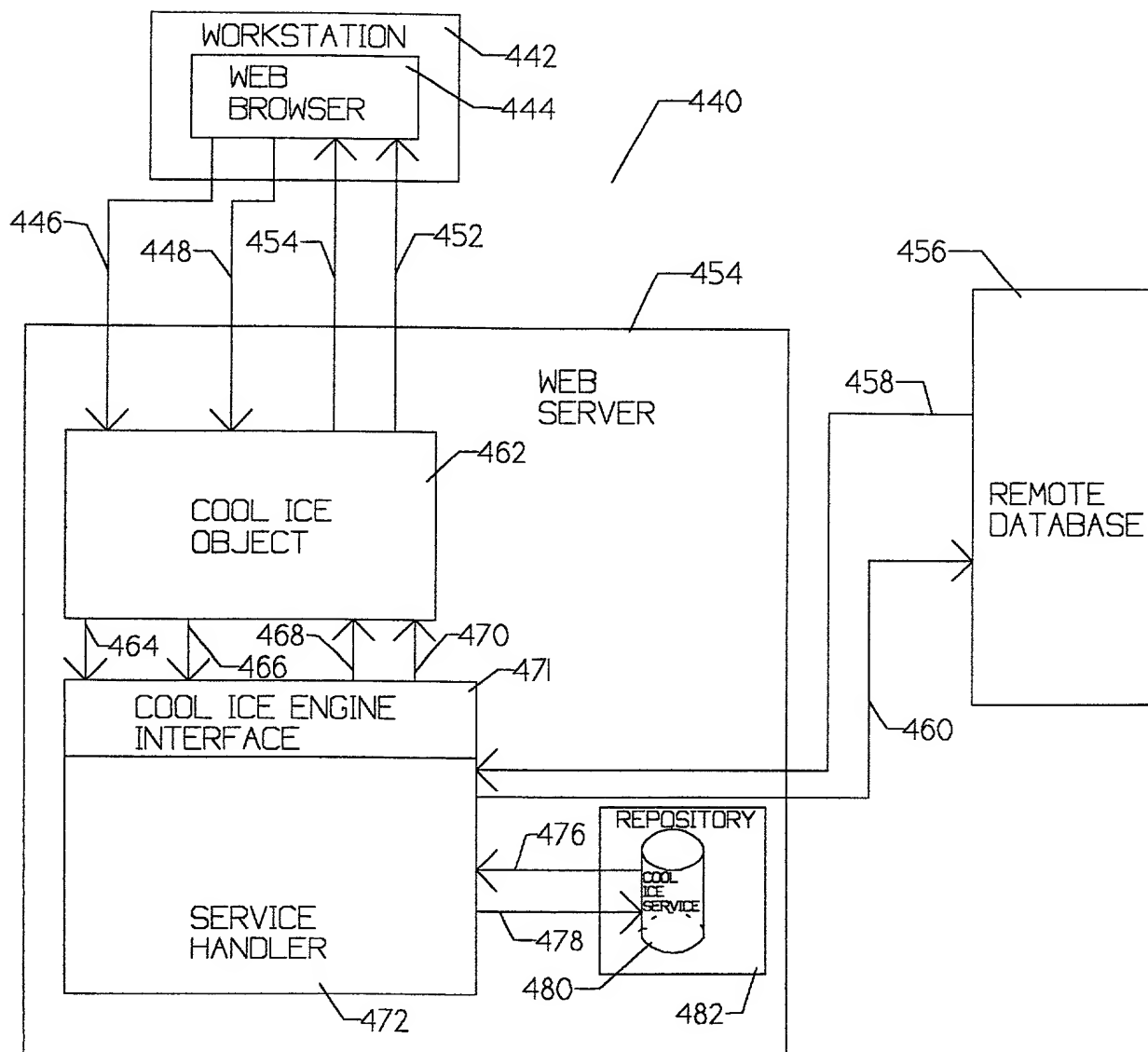


FIG. 10

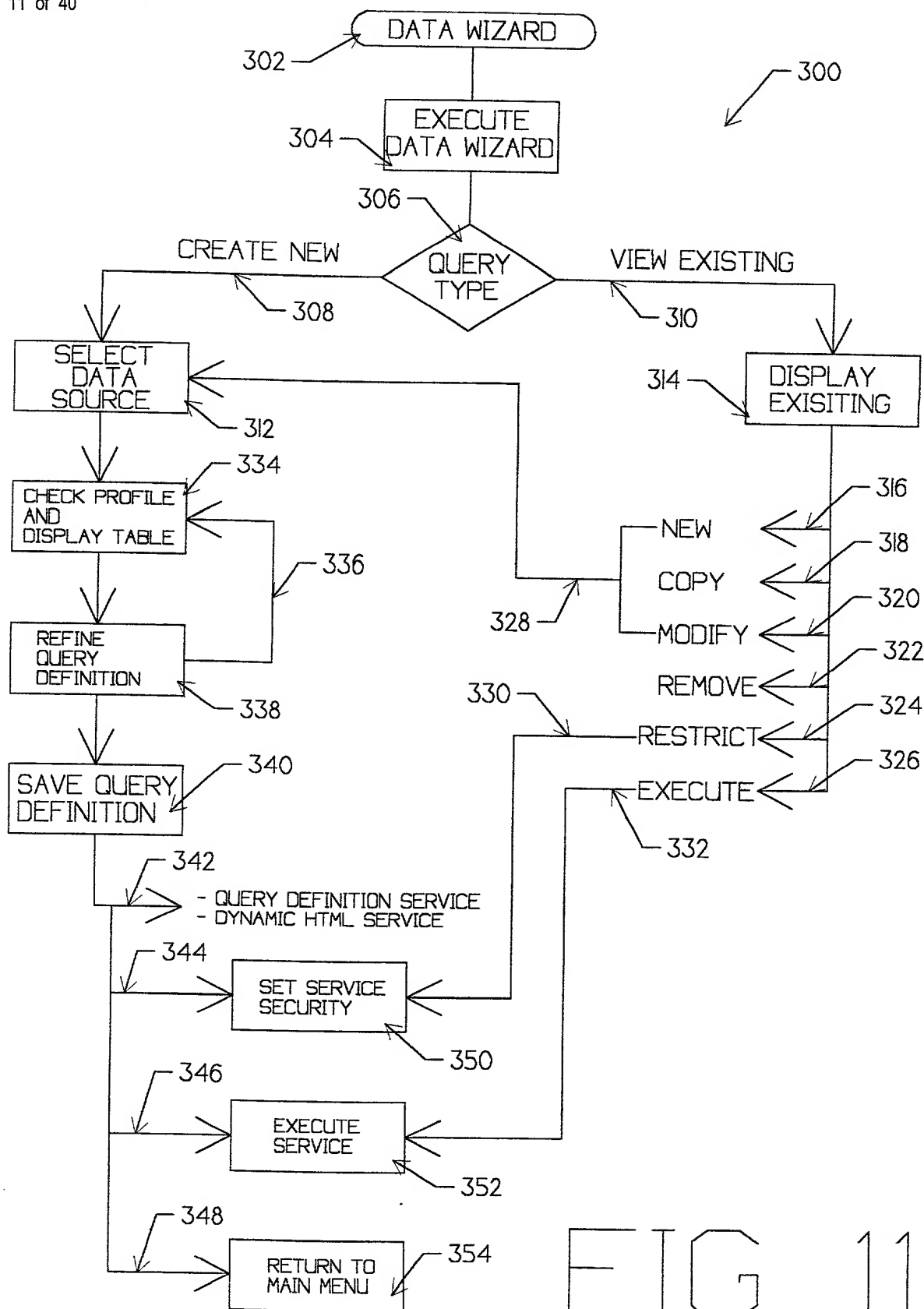


FIG. 11

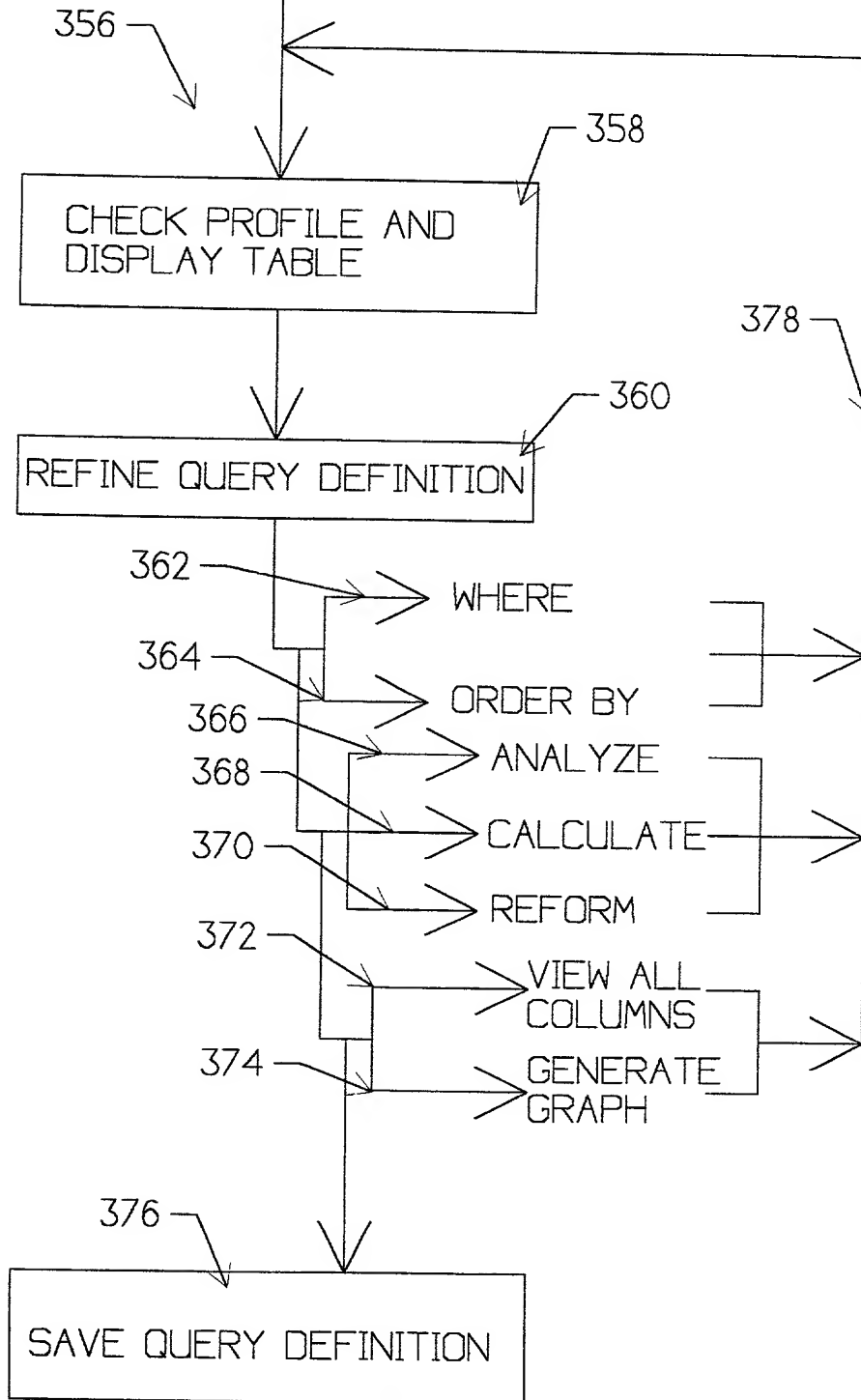


FIG. 12

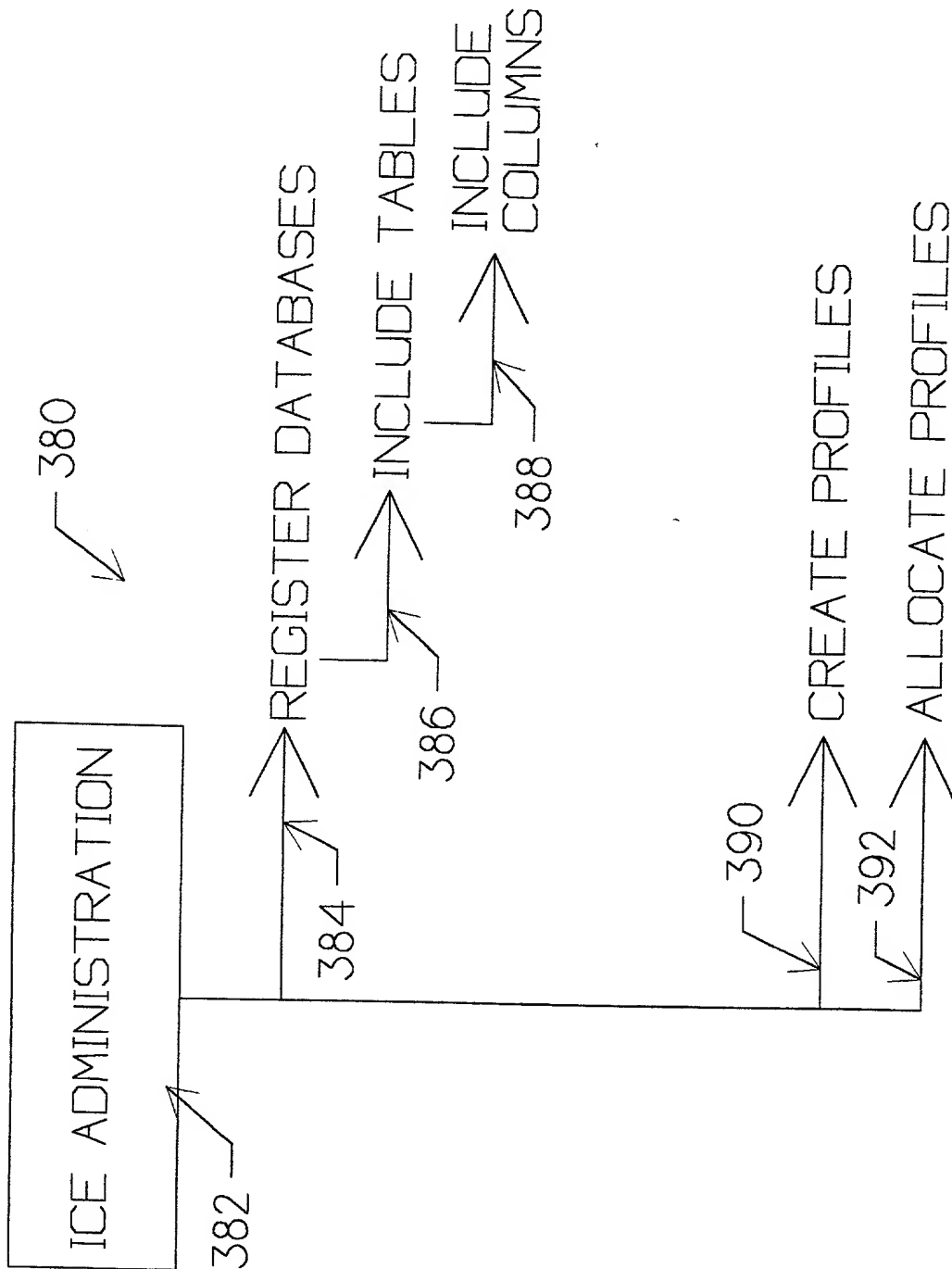


FIG. 13

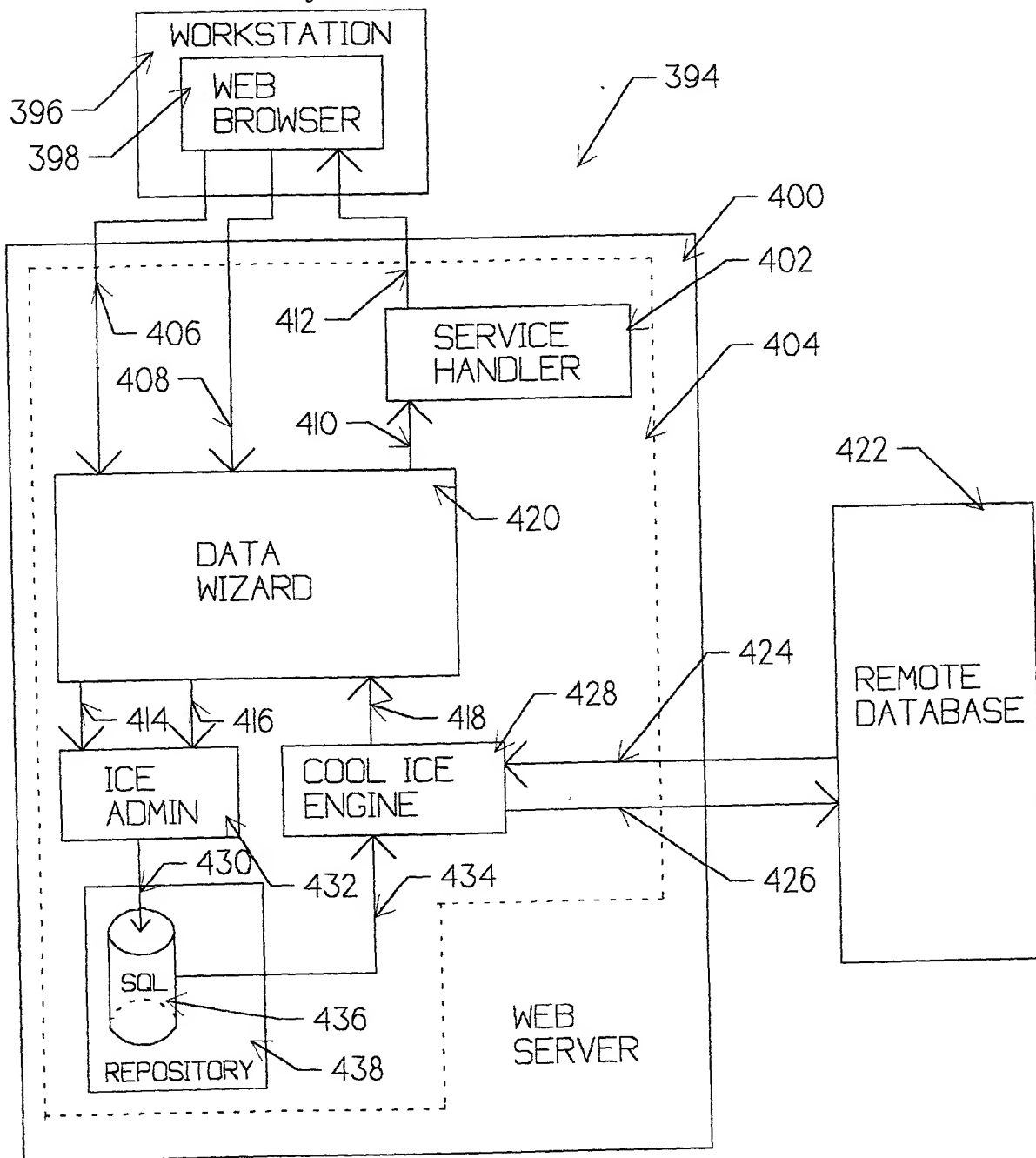


FIG. 14

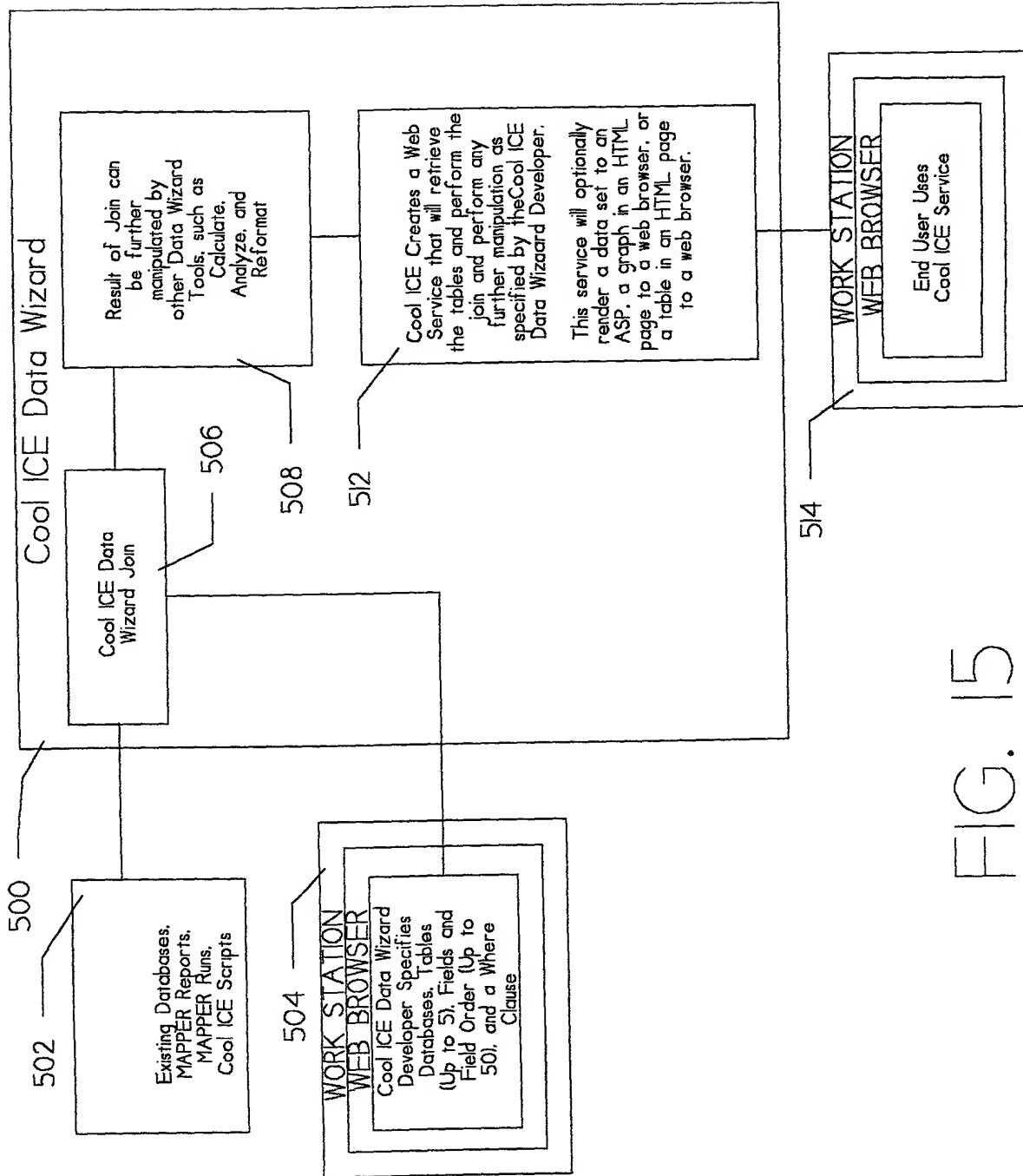
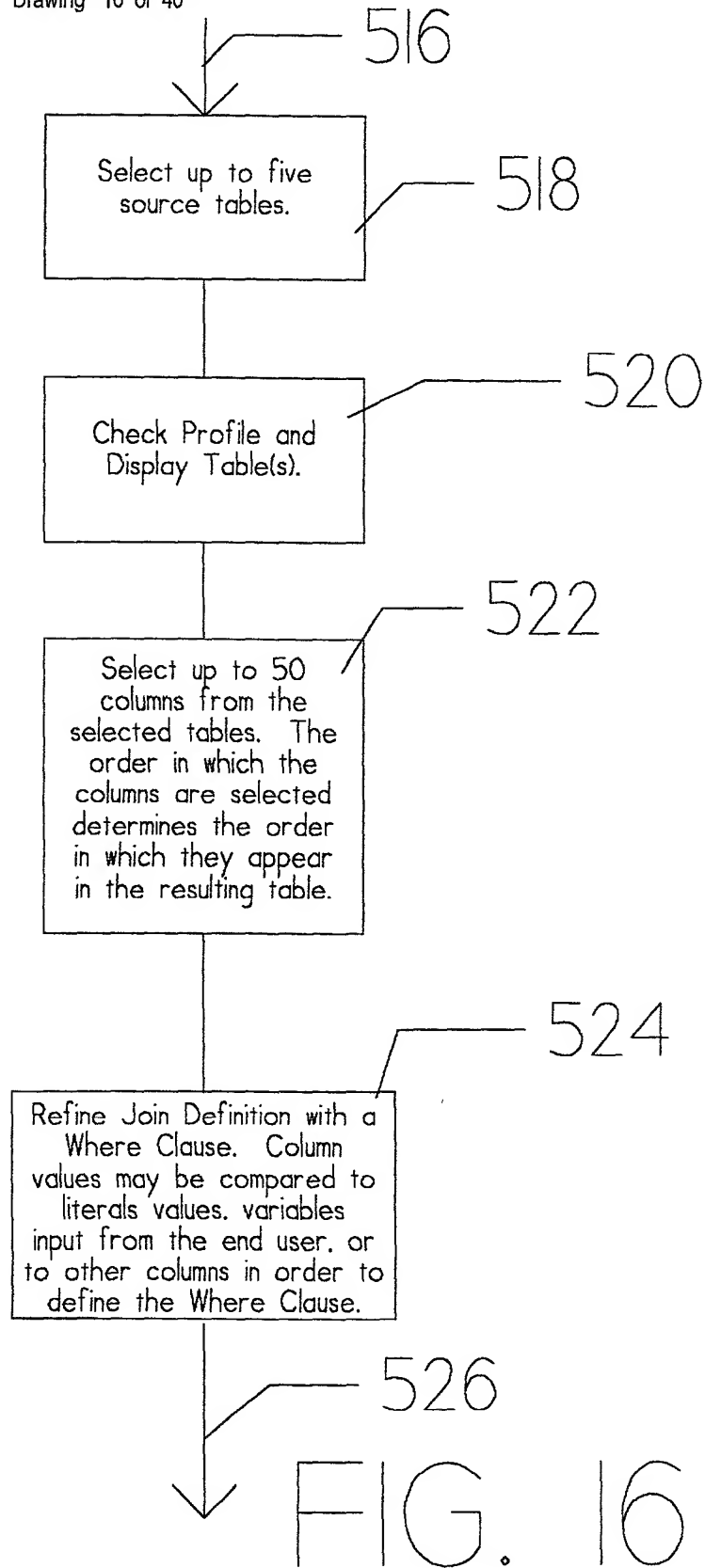


FIG. 15





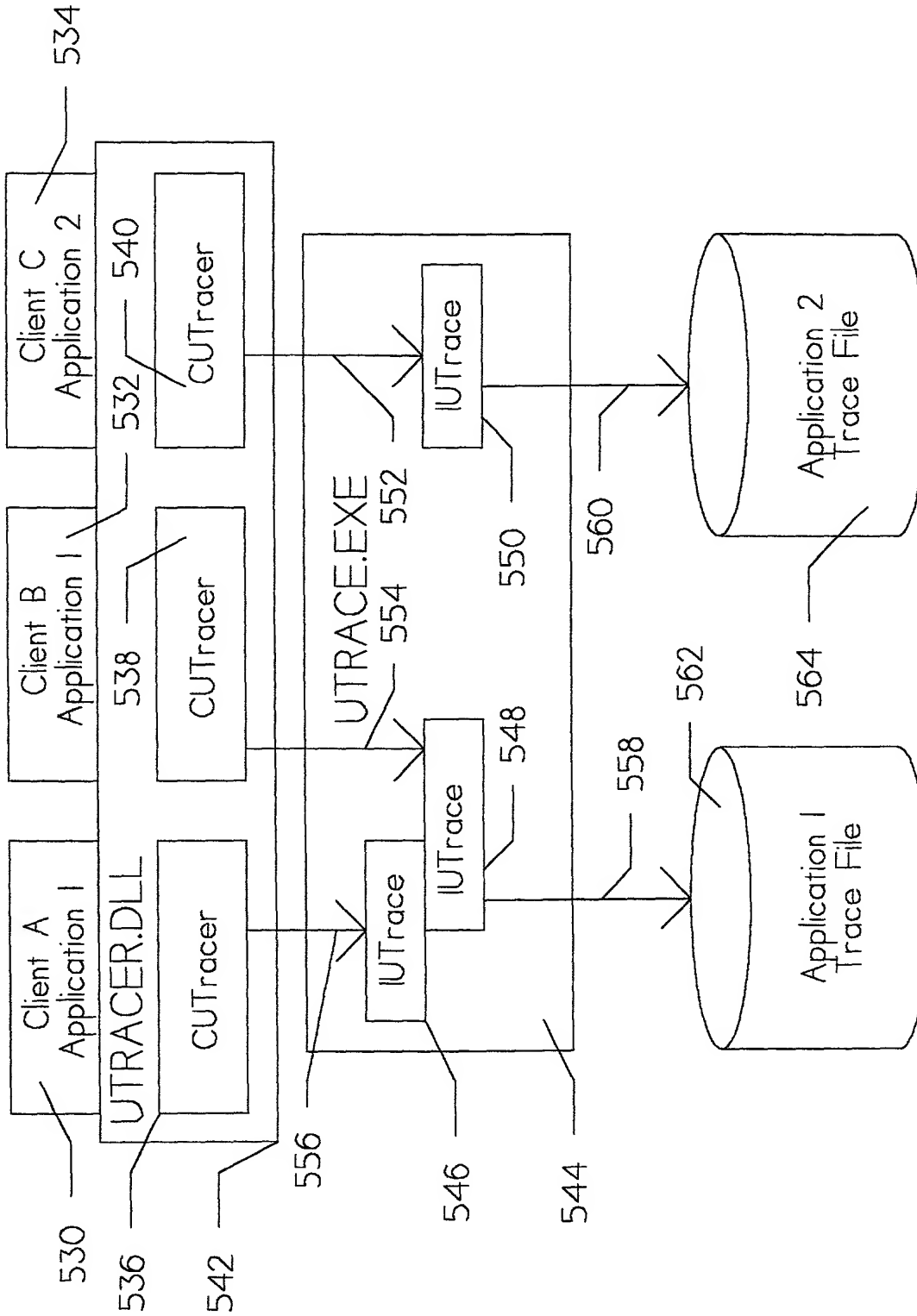


FIG. 17

# HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application 565

ENABLETRACE	-- DWORD value indication a Boolean (!=trace., 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS	-- Value indicating component level trace policy flags
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

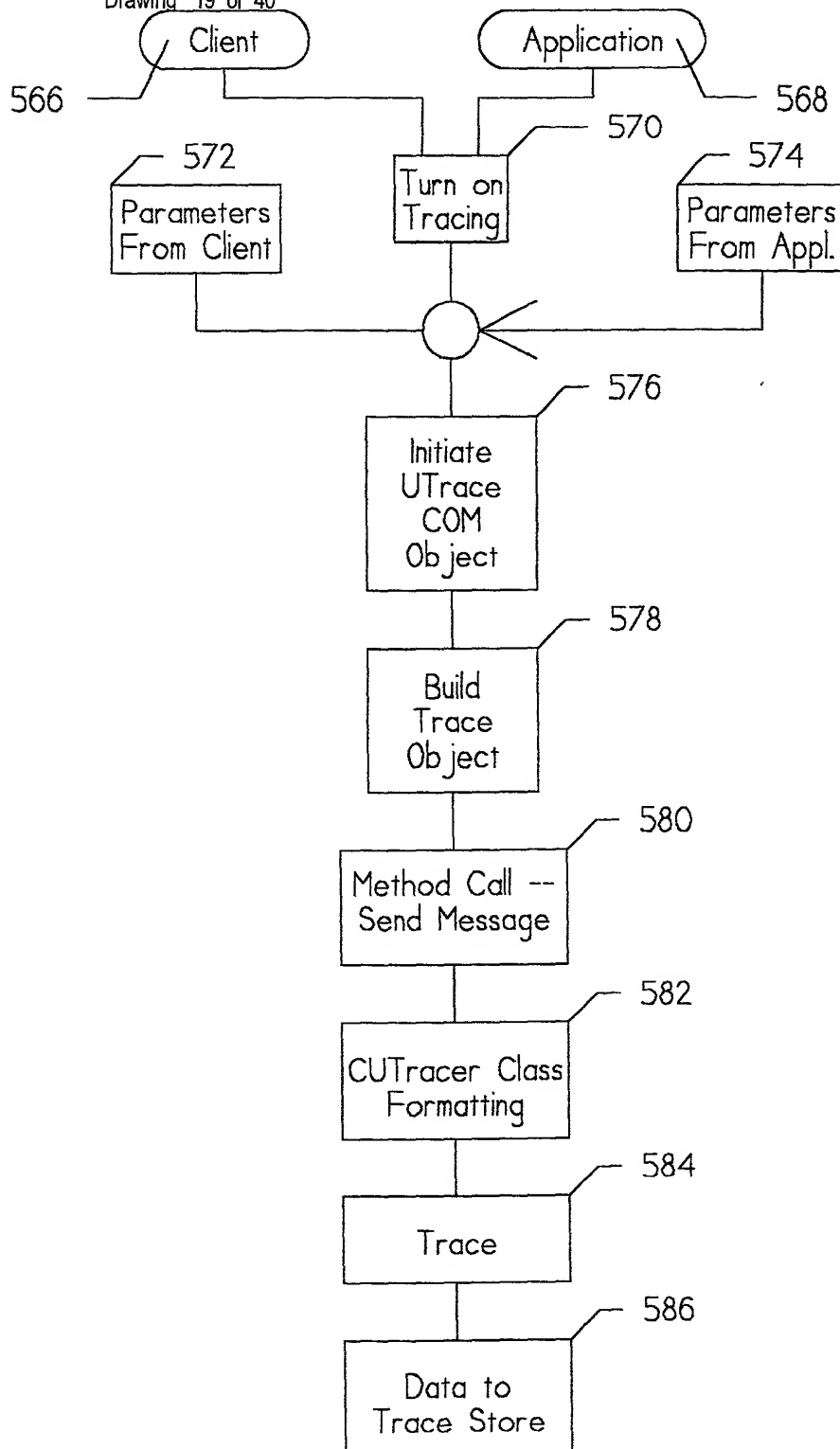


FIG. 19

```
#define CI_TRACE_VERSION      0x1  
#define CI_TRACE_ERROR      0x2  
#define CI_TRACE_INTERFACE   0x4  
#define CI_TRACE_FLOW        0x8  
#define CI_TRACE_DETAIL      0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

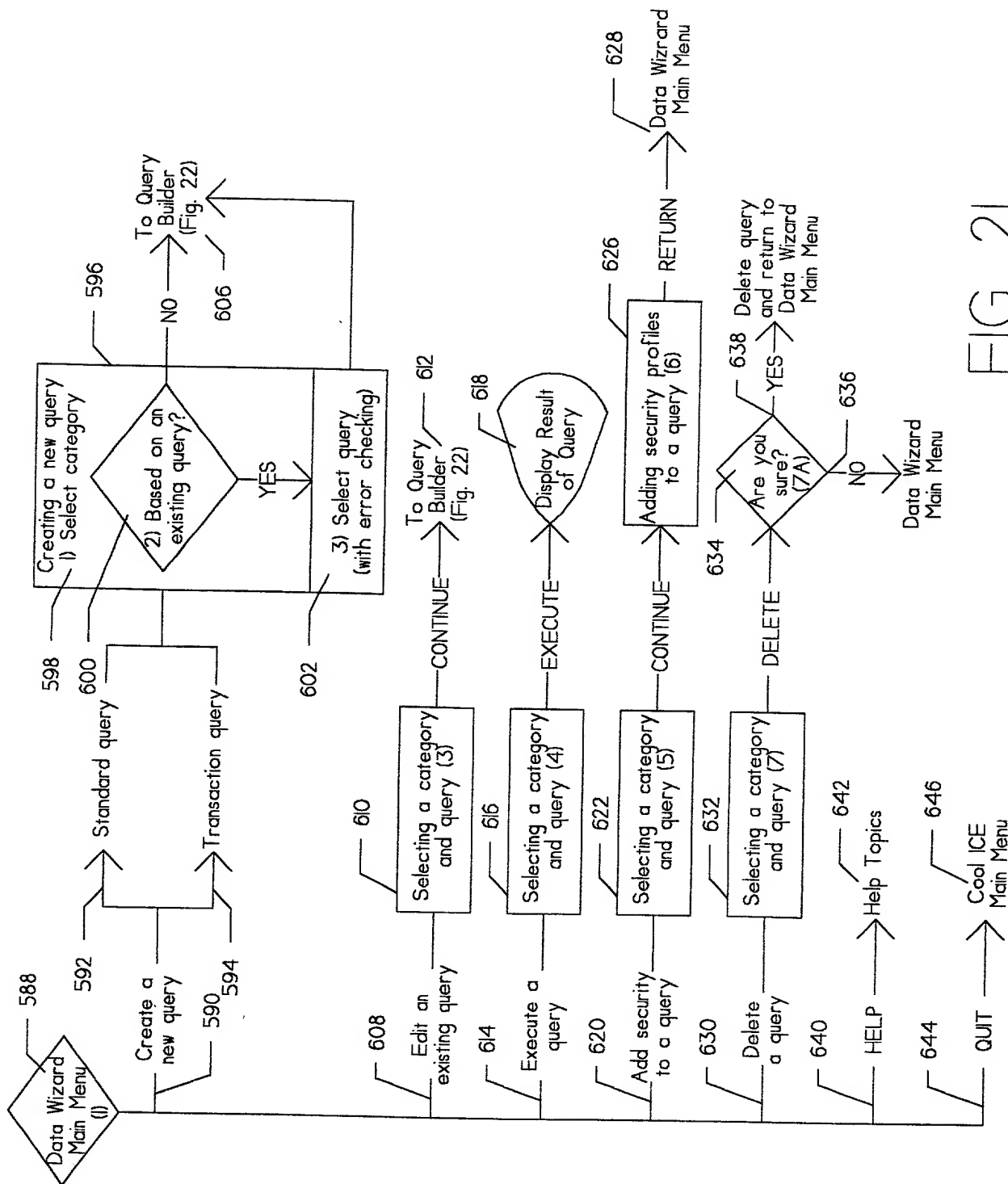


FIG. 21

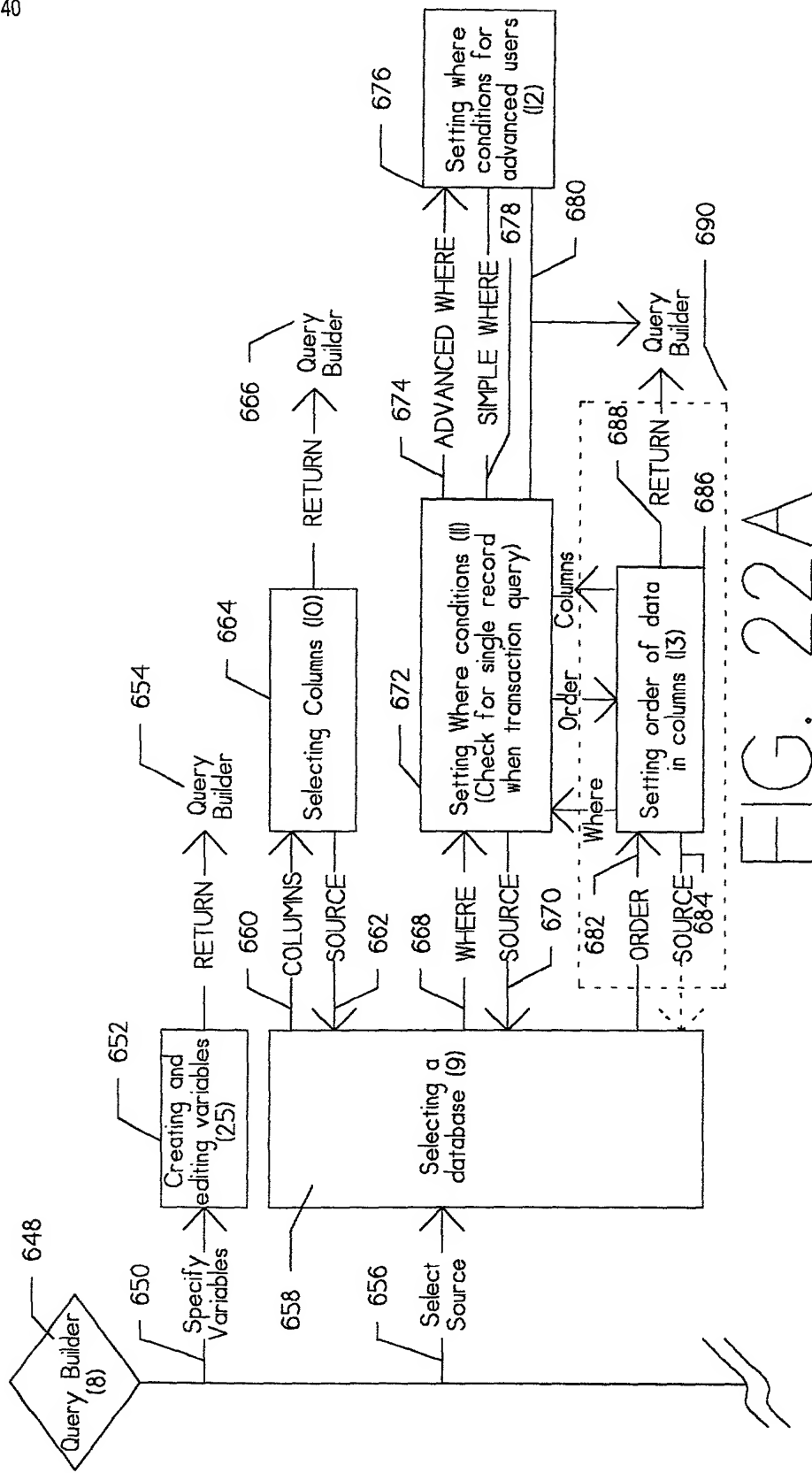


FIG. 22A

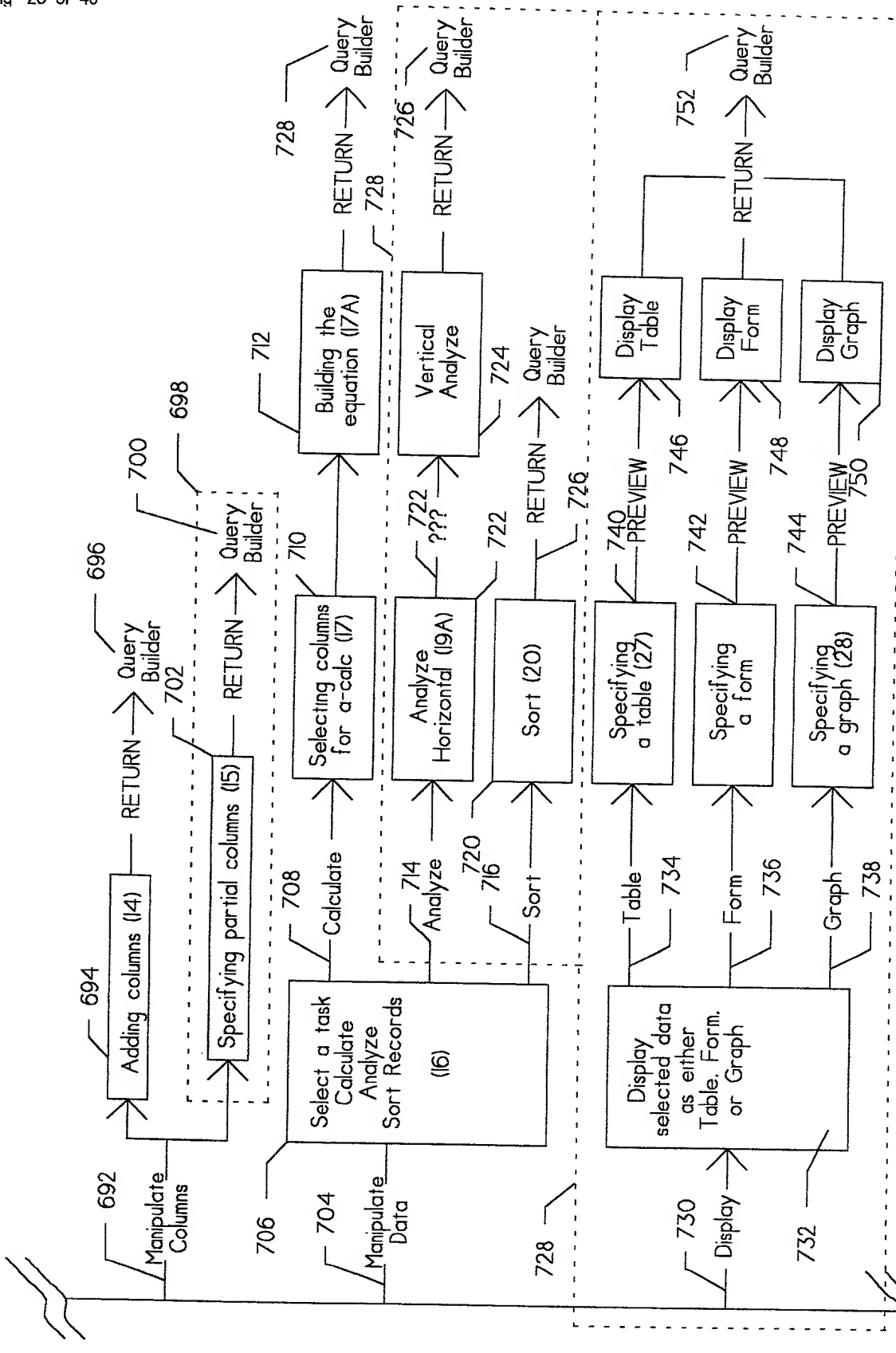


FIG. 22B

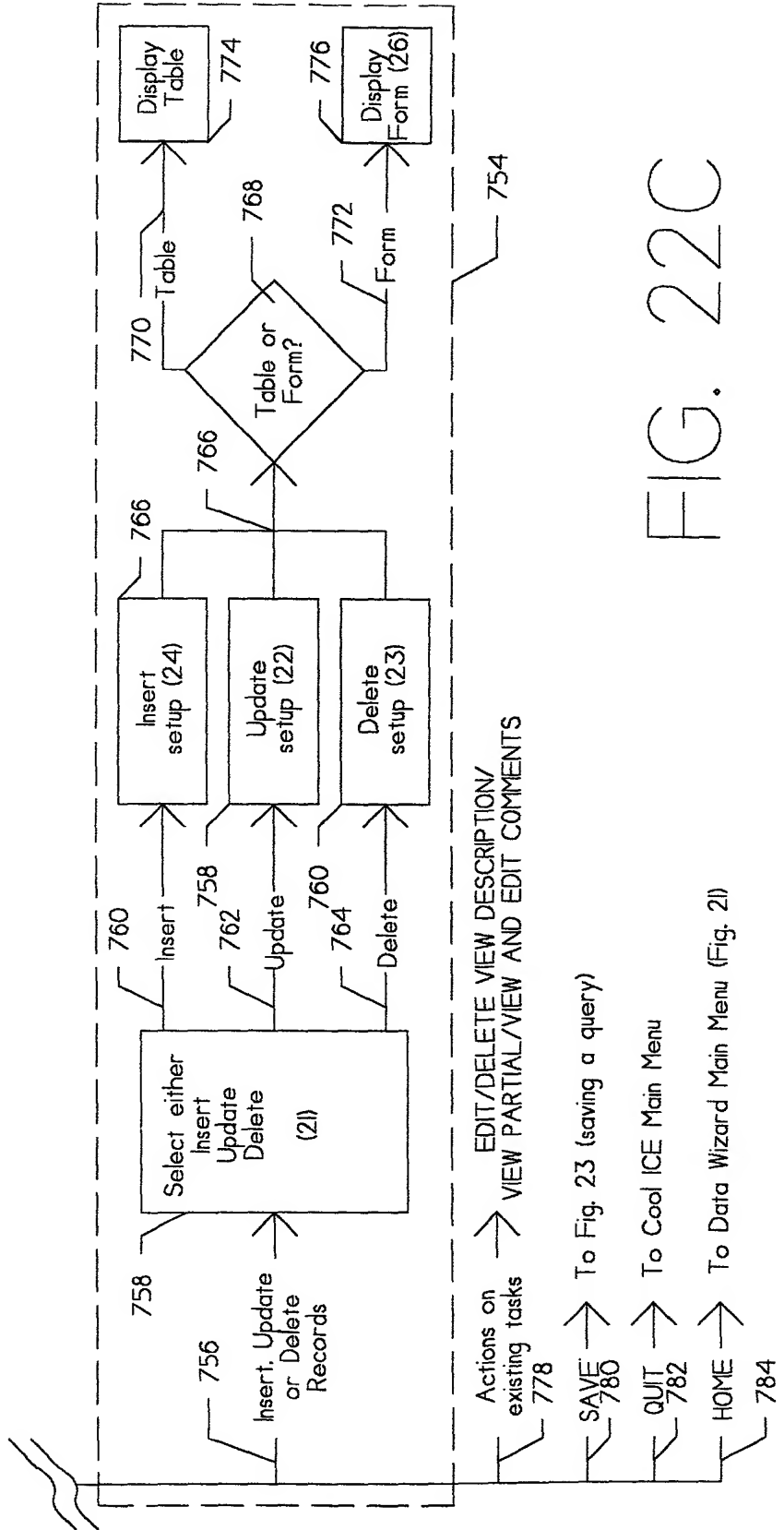


FIG. 22C



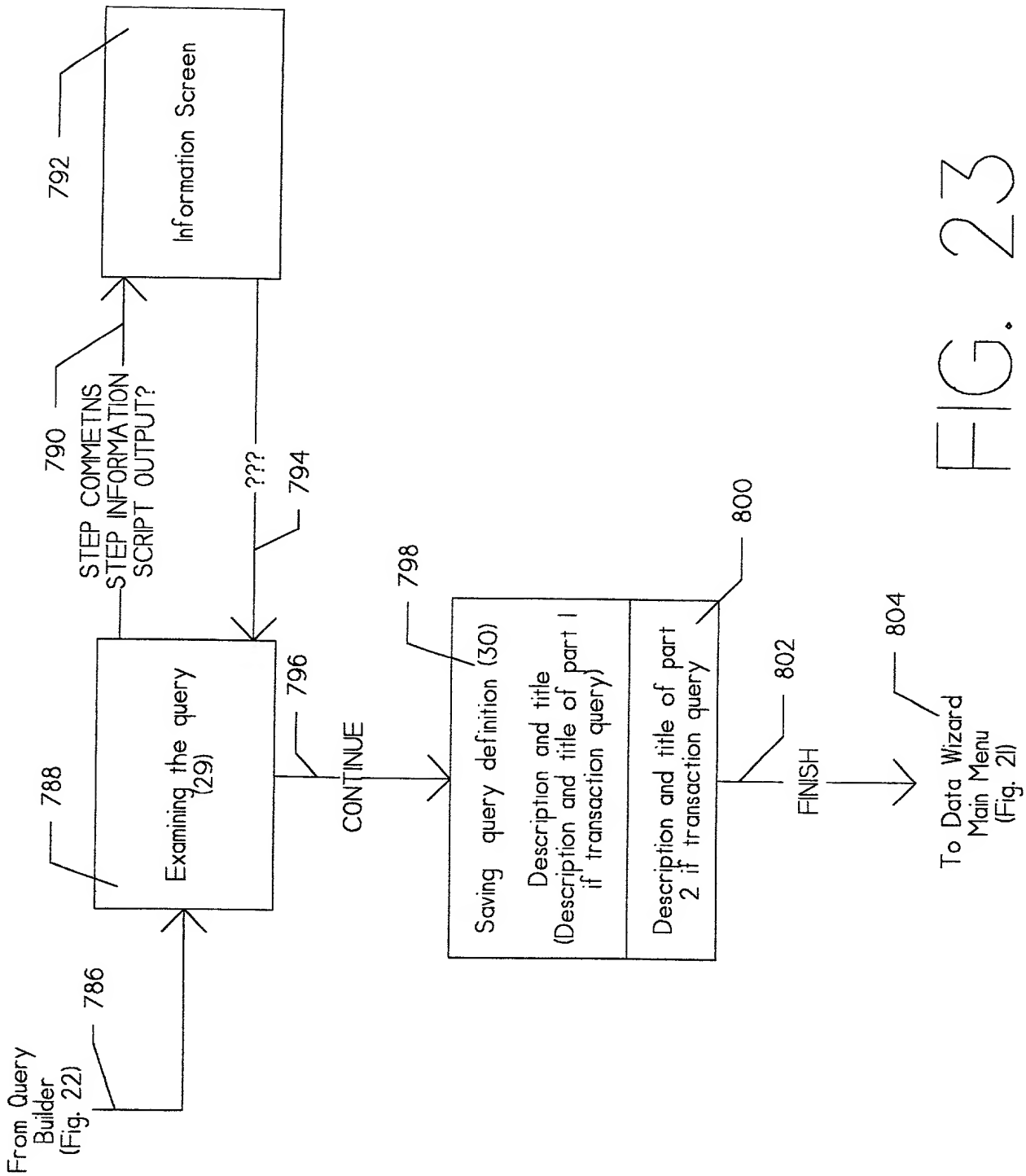


FIG. 23

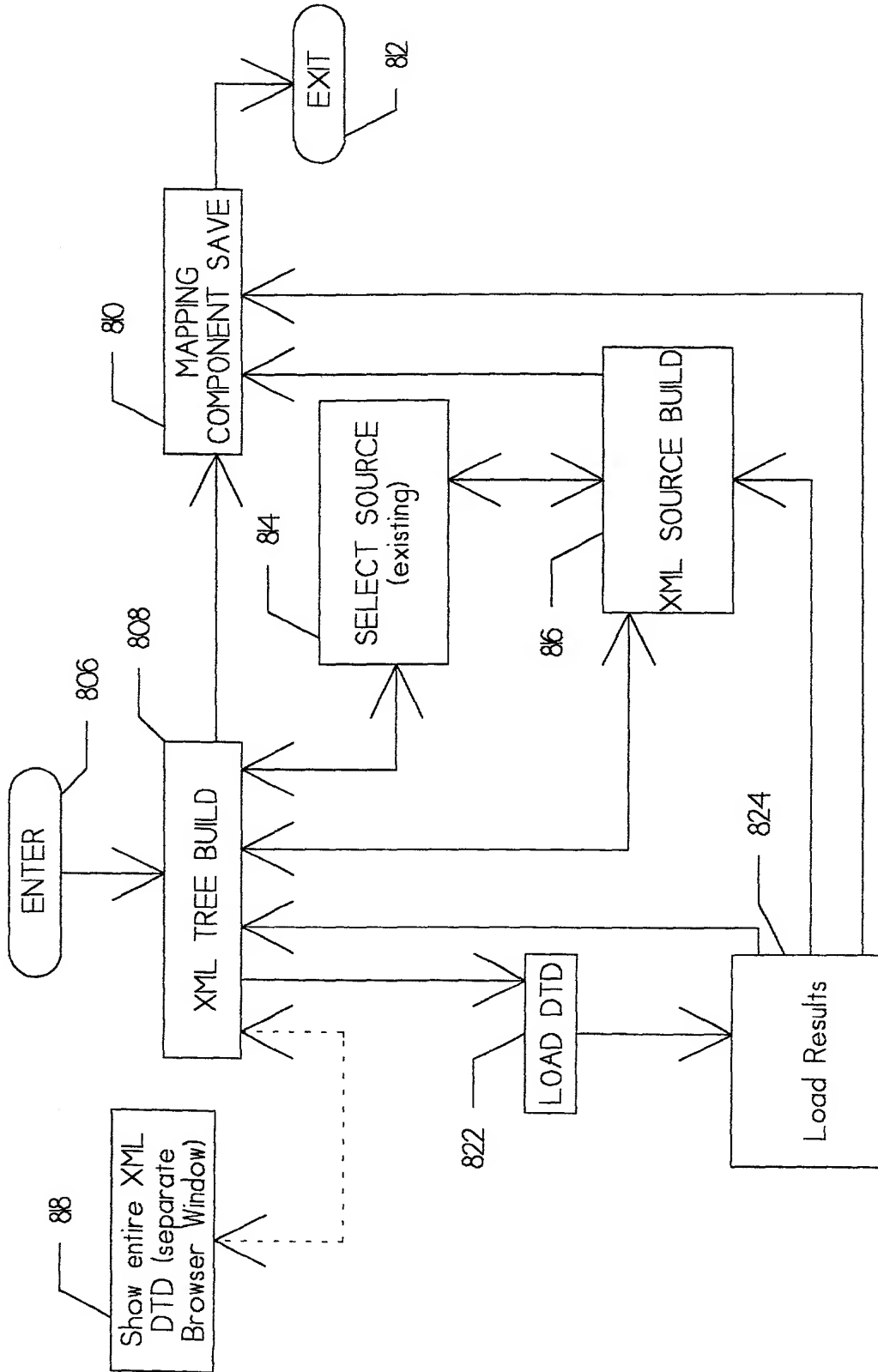


FIG. 24

XML -Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

XML MAPPING ELEMENTS

828 Sources 874 Save 876

830 Redisplay 872

ELEMENTS	858	CONTROLS	866
Newspaper	<input type="radio"/> Variables	Mapping Type	Name Conversion
Article	<input type="radio"/> Tables	<input type="checkbox"/> Open	<input type="checkbox"/> Capital
Author	<input type="radio"/> Article	Table Mapping	868
Editor	<input type="radio"/> Article	<input type="checkbox"/> Complete	860
Date	<input type="radio"/> Author	Element Properties	862
Edition	<input type="radio"/> Editor	Item Type	Element Form
Headline	<input type="radio"/> Date	<input type="checkbox"/> Sequence	Record Rpt
Byline	<input type="radio"/> Edition	Mapping	864
Lead	<input type="radio"/> Headline	Row Iterator	863
Body	<input type="radio"/> Byline	Value	
	<input type="radio"/> Lead		

826

FIG. 25

XML-Mapper -- Microsoft Internet Explorer

File Edit View Favorites Tools Help

838	Newspaper	o	o Tables	Mapping Type	Name Conversion
840	Article	o	o Article	Open	Capital 864
842	Author	o	o Article	Table Mapping	868
844	Editor	o	o Author	Complete	866
846	Date	o	o Editor	Element Properties	
848	Edition	o	o Date	Item Type	Element Form
850	Headline	o	o Edition	Sequence	860
852	Byline	o	o Headline	Mapping	861
854	Lead	o	o Byline	Row Iterator	862
	Body	o	o Lead	Value	863
	Notes	o	o Body	Actions 865	
			o Notes	Clear Mapping Add Sibling above Add Sibling below Add Childred Add Attributes Delete Branch Compact View Show Representation	

FIG. 26

826

XML - Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder

UNISYS

871 XML MAPPING ELEMENTS 872 [Redisplay] 874 [Sources] 873 [Upload DTD] 876 [Save]

Home Quit Cancel Help

ELEMENTS 858

Root

CONTROLS

Mapping Type  
Open ☒ 868  
Table Mapping  
Complete ☒ 866

Name Conversion  
Capital ☒ 864

Element Properties

Item Type  
Sequence ☒ 860  
Mapping  
Row Iterator ☒ 862  
Value ☒ 863

Variables ☒ 856  
Tables ☐

FIG. 27

870

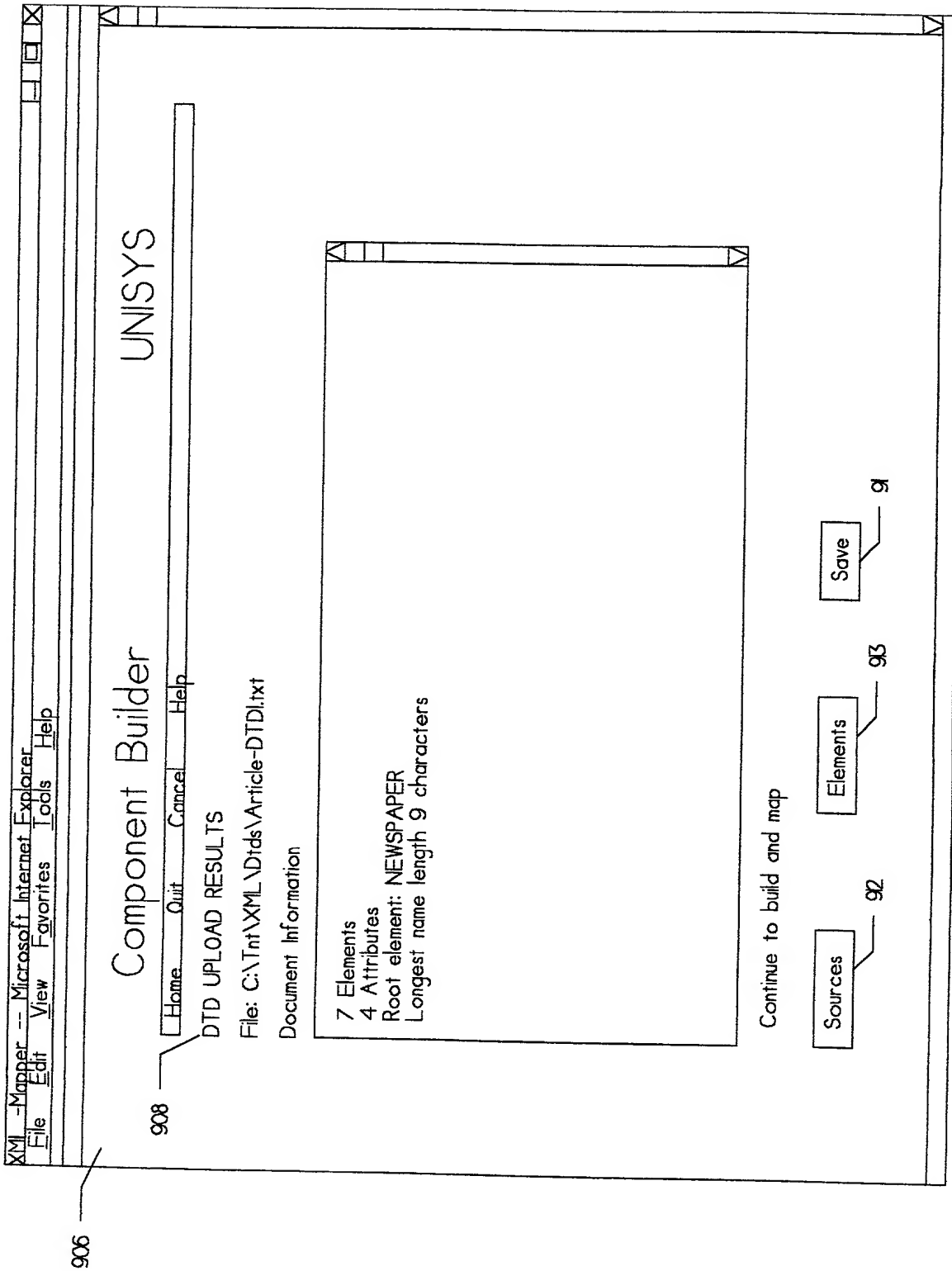


FIG. 28

IDENT EXAMPLE

Version:AC:0.0 90  
Truncation:AC:0 92  
TypeCheck:AC:0 93  
ShoeData:ED:0:R 94  
From:DE:I:R  
From:EV:Supplier:20:string  
TableType:ED:I:R  
TableType:EV:TableInfo:50:string  
Inventory:ED:I:R  
Inventory:BT:Inventory:7  
Inventory:IH:ITEMNUMBER:I0  
Inventory:IH:QTY:5  
Inventory:IH:TYPE:I0  
Inventory:IH:GENDER:6  
Inventory:IH:SIZ:3  
Inventory:IH:COLOR:3I  
Inventory:IH:UNITCOST:I3  
Date:AD:I:R  
Date:AV:Date:I0:string  
Time:AD:I:R  
Time:AV:Time:5:string  
Row:ED:2:R  
Row:BR:I  
ItemNr:ED:2:R  
ItemNr:EF:I:ITEMNUMBER:I0:R:string  
Quantity:AD:2:R  
Quantity:AF:I:QTY:5:R:string  
Type:ED:2:R  
Type:EF:I:TYPE:I0:L:string  
Gender:ED:2:0  
Gender:EF:I:GENDER:6:L:string:UniSex  
Size:ED:2:R  
Size:EF:I:SIZ:3:L:string  
Color:ED:3:0  
Color:EF:I:COLOR:3I:L:string:White  
Unitcost:ED:2:R  
Unitcost:EF:I:UNITCOST:I3:R:string  
Row:EE:2  
Row:ER:a  
Inventory:EE:I  
Inventory:ET:I 96

FIG. 29

DID EXAMPLE 98  
<IDOCTYPE ShoeData [

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

FIG. 30



XML INPUT DOCUMENT EXAMPLE

920  
<?xml version="1.0" encoding="ISO-8859-1"?>  
<ShoeData>  
<From>Roseville Store</From>  
<TableType>Low Inventory Count</TableType>  
<Inventory Date>2000-12-05</Inventory Date>  
<Time>11:51</Time>  
<Row>  
<ItemNr Quantity="0">32335</ItemNr>  
<Type>Tennis</Type>  
<Gender>Mens</Gender>  
<Size>6</Size>  
<Color>White/Zen Grey/New Spruce</Color>  
<Unitcost>25.00</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="0">35410</ItemNr>  
<Type>Running</Type>  
<Gender>Womens</Gender>  
<Size>5</Size>  
<Color>White/Zen Grey/Neptune Blue</Color>  
<Unitcost>19.70</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="0">35411</ItemNr>  
<Type>Running</Type>  
<Gender>Womens</Gender>  
<Size>6</Size>  
<Color>White/Zen Grey/Neptune Blue</Color>  
<Unitcost>19.70</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="2">35420</ItemNr>  
<Type>Running</Type>  
<Gender>Womens</Gender>  
<Size>5</Size>  
<Color>White/Chlorine Blue/Hot Lime</Color>  
<Unitcost>19.70</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="1">37421</ItemNr>  
<Type>Golf</Type>  
<Gender>Womens</Gender>  
<Size>8</Size>  
<Color>White/Fluorescent Pink</Color>  
<Unitcost>35.00</Unitcost>  
</Row>  
</Inventory>  
</ShoeData>  
<Color>White/Black-Hot Lime Neo Teak</Color>  
<Unitcost>40.00</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="0">32474</ItemNr>  
<Type>Tennis</Type>  
<Gender>Womens</Gender>  
<Size>8</Size>  
<Color>White/Light Marine-Ultramarine</Color>  
<Unitcost>25.00</Unitcost>  
</Row>  
<Row>  
<ItemNr Quantity="1">35310</ItemNr>  
<Type>Running</Type>  
<Gender>Mens</Gender>  
<Size>6</Size>

FIG. 31

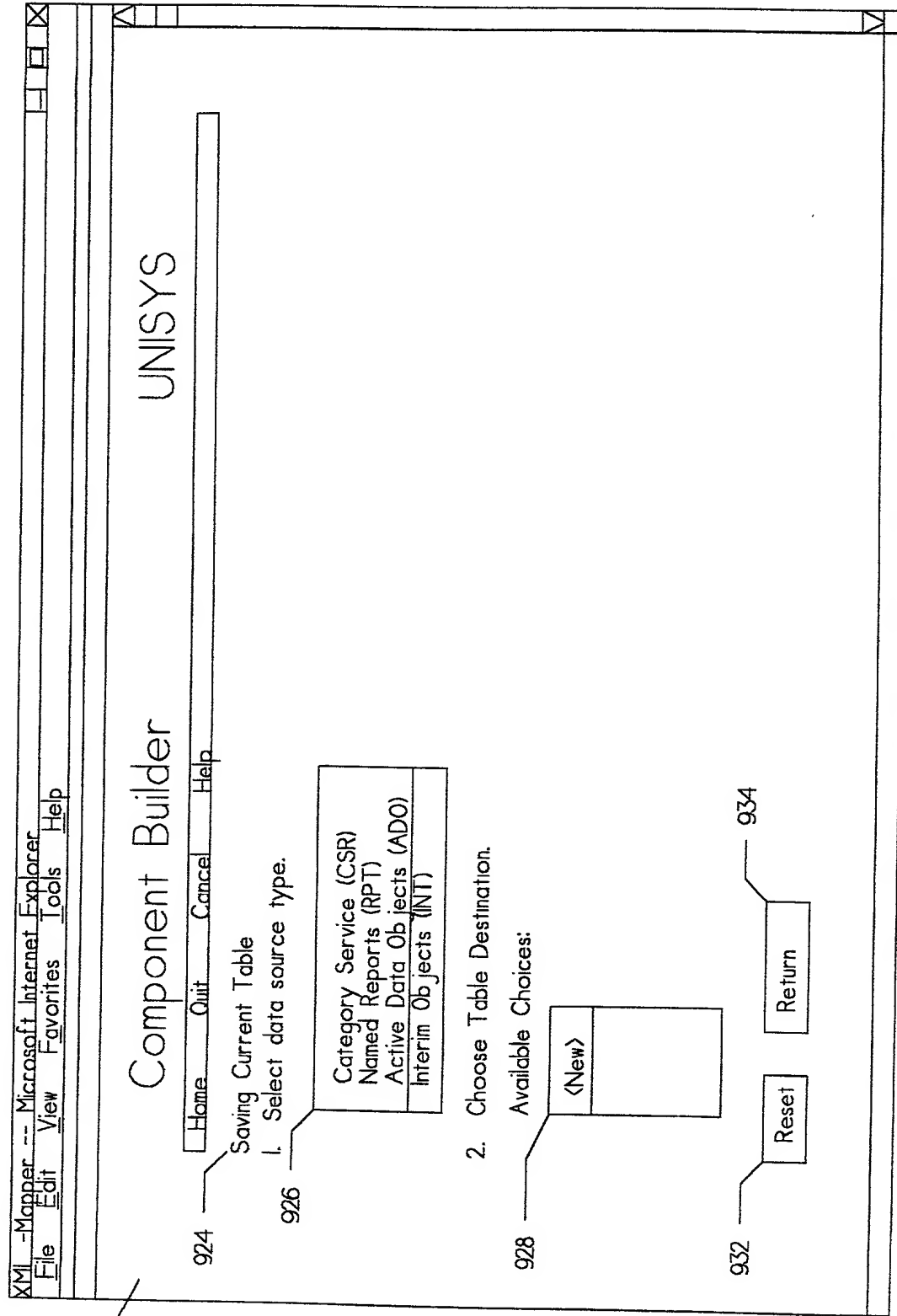


FIG. 32

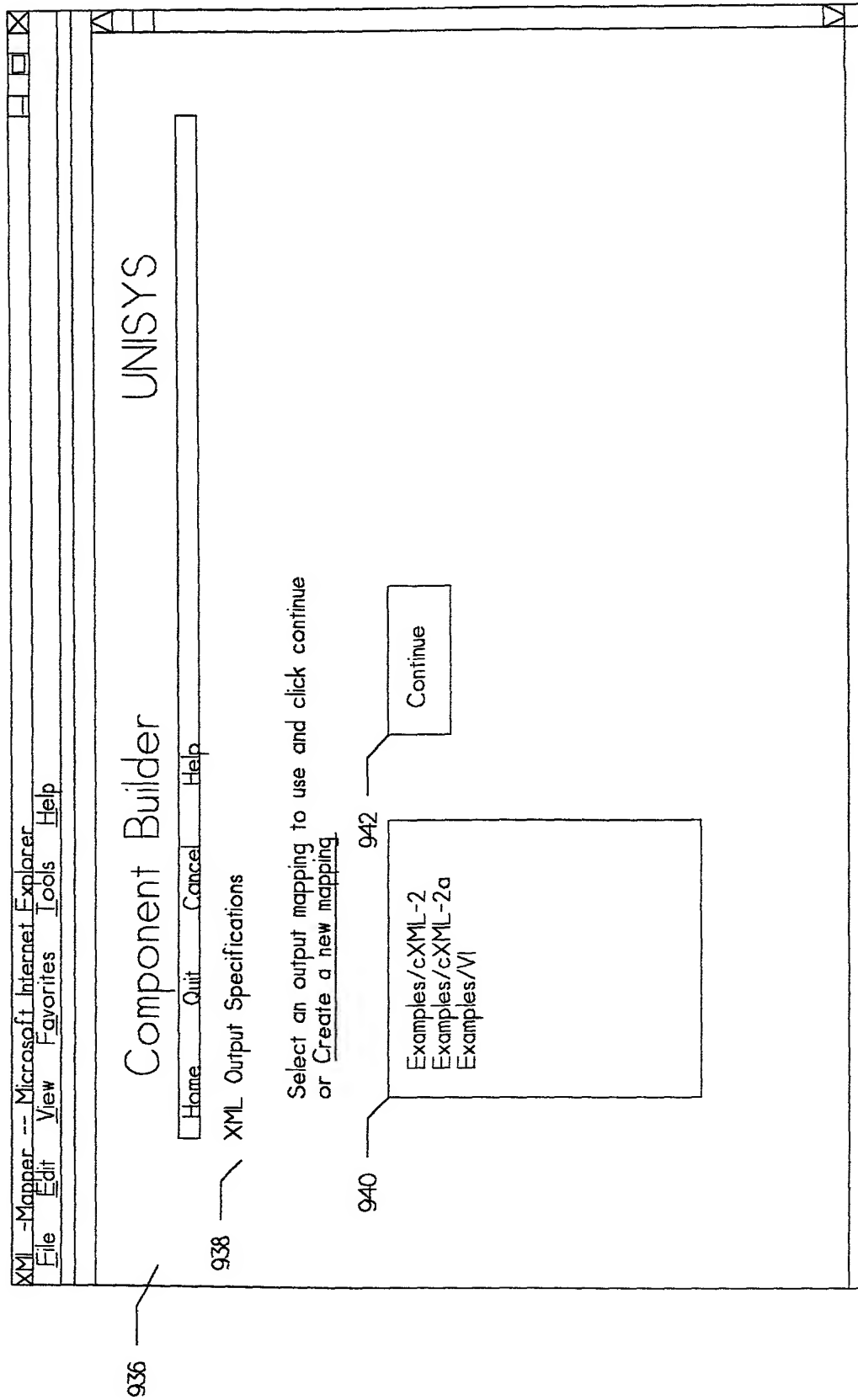


FIG. 33

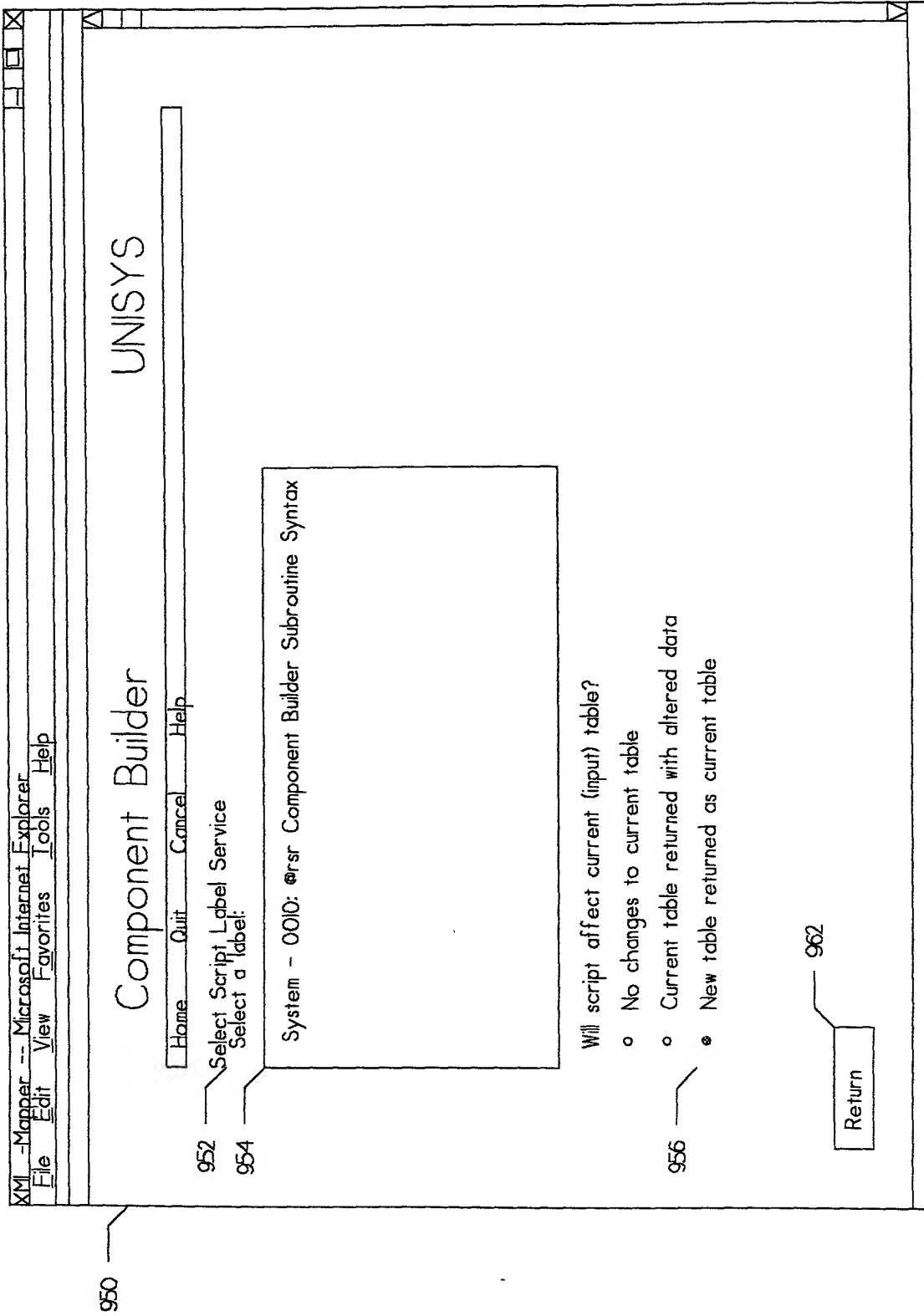


FIG. 34

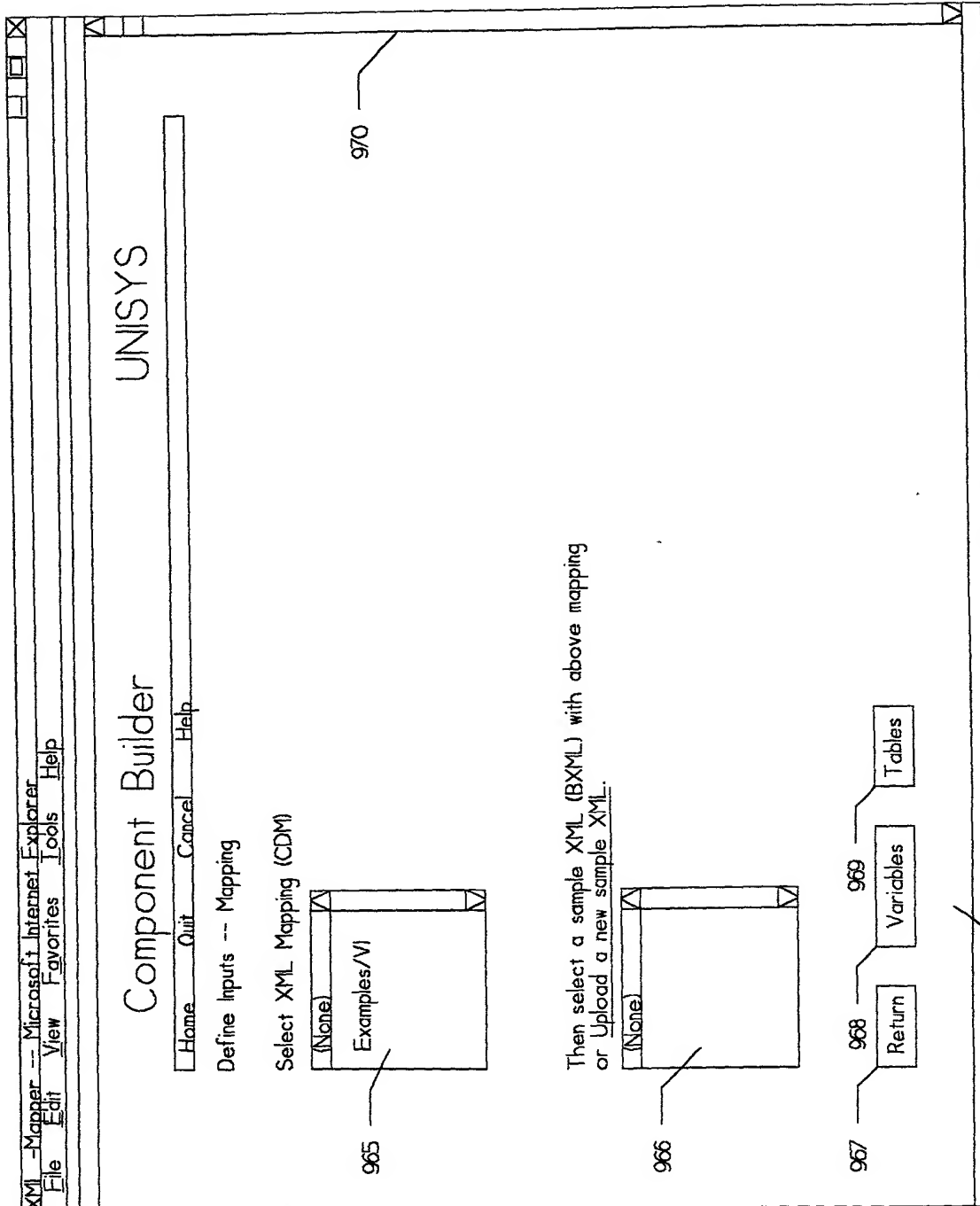


FIG. 35



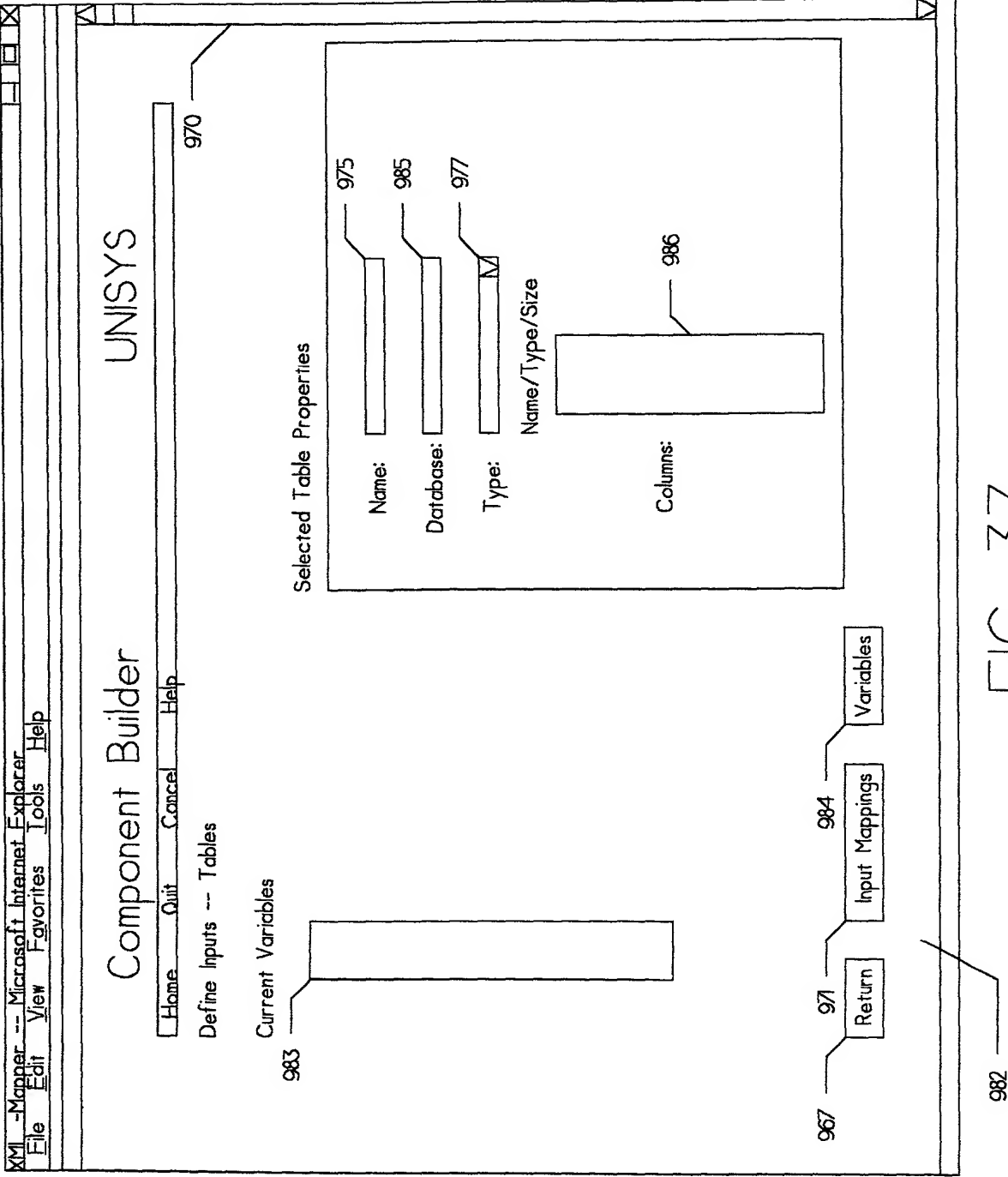


FIG. 37

XML - Mapper -- Microsoft Internet Explorer  
File Edit View Favorites Tools Help

Component Builder

Home Quit Cancel Help

Define Inputs -- Upload BXML

988 Input XML File Name 991 Browse

989 Input Category and Service to Save To

990

967 Return

970

987

FIG. 38